

SEQUENCE LISTING

<110> Xu, Jiangchun
 Dillon, Davin C.
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 Fanger, Gary R.
 Retter, Marc W.
 Stolk, John A.
 Day, Craig H.
 Vedvick, Thomas S.
 Carter, Darrick
 Li, Samuel
 Wang, Aijun
 Skeiky, Yasir A.W.
 Hepler, William
 Hural, John
 McNeill, Patricia D.
 Houghton, Raymond L.

<120> COMPOSITIONS AND METHODS FOR THE THERAPY AND
 DIAGNOSIS OF PROSTATE CANCER

<130> 210121.427C24

<140> US

<141> 2001-02-09

<160> 943

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 814

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(814)

<223> n = A,T,C or G

<400> 1

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tgccagctgc	attaatgaat	cggccaacgc	ncggggaaaa	gcggtttgcg	ttttgggggc	660
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actcctcaaa	gnggtatta	cggttatcon	naaatcnggg	gatacccnng	aaaaaanttt	780
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 <212> DNA
 <213> Homo sapien

<220>
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 <223> n = A,T,C or G

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ctaaagtctg	atgaacttcc	caatcagatg	agcatggatg	attggccaga	aatgaagaag	180
aagtttgcag	atgtatttgc	aaagaagacg	aaggcagagt	ggtgtcaa	ctttgacggc	240
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aaggaacggg	gctcgtttat	caccagtgag	gagcaggacg	tgagcccccg	ccctgcacct	360
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gcccaccg	cgggtggagct	ccagcttttg	ttcccttttag	tgagggttaa	ttgcgcgctt	480
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aacatacgag	cgggaacata	aagtgttaag	cctgggggtgc	ctaatagantg	agctaactcn	600
cattaattgc	gttgcgctca	ctgcccgtt	tccagtcggg	aaaactgtcg	tgccactgcn	660
ttantgaatc	ngccaccccc	cgggaaaagg	cggttgcntt	ttgggcctct	tccgctttcc	720
tgctcattg	atcctngcnc	cgggtcttcg	gctgcggnga	acggttcact	cctcaaaggc	780
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 <212> DNA
 <213> Homo sapien

<220>
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 <222> (1)...(773)
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tcgtagaact	ggggttctat	tgctccaaca	gccatgaatt	ccccatctgc	tgctcctgtaa	360
gtcgtataga	aagggtgctcc	accatccaac	atgttctgtc	ctcgaggggg	ggcccgggtac	420
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<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = A,T,C or G
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<211> 834
<212> DNA
<213> Homo sapien

<220>
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<223> n = A,T,C or G
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atttttataac	aatcaacacc	tgtggctttt	aaaatttggt	tttcataaga	taattttatac	180
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aatagaatac	cttggcctct	atgcaaatat	gtctagacac	tttgattcac	tcagccctga	420
catttcagttt	tcaaagtagg	agacaggttc	tacagtatca	ttttacagtt	tccaacacat	480
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tcaccaaccc	ctcagttata	aaaaattttc	aagttatat	agtcataata	cttggtgtgc	600
ttatttttaaa	ttagtgtctaa	atggattaag	tgaagacaac	aatgggtccc	taatgtgatt	660

gatattggtc	atttttacca	gcttctaaat	ctnaactttc	aggcttttga	actggaacat	720
tgnatnacag	tgttccanag	ttncaaccta	ctggaacatt	acagtgtgct	tgattcaaaa	780
tgttattttg	ttaaaaatta	aatttttaacc	tggtggaaaa	ataatttgaa	atna	834

<210> 6
 <211> 818
 <212> DNA
 <213> Homo sapien

<220>
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 <222> (1)...(818)
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tgtaaagtga	aatatttagtt	ggcggatgaa	gcagatagtg	aggaaagttg	agccaataat	180
gacgtgaagt	ccgtggaagc	ctgtggctac	aaaaaatggt	gagccgtaga	tgccgtcgga	240
aatggtgaag	ggagactcga	agtactctga	ggcttgtagg	agggtaaaat	agagaccag	300
taaaattgta	ataagcagtg	cttgaattat	ttggtttcgg	ttgttttcta	ttagactatg	360
gtgagctcag	gtgattgata	ctcctgatgc	gagtaatacg	gatgtgttta	ggagtgggac	420
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ggtaataaat	aggattatcc	cgtatcgaag	gccttttttg	acagggtggg	tgtggtggcc	600
ttggtatgtg	ctttctcgtg	ttacatcgcg	ccatcattgg	tatatgggta	gtgtgttggg	660
ttantangg	ctantatgaa	gaacttttgg	antggaatta	aatcaatngc	ttggccggaa	720
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<210> 7
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 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
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aagtggtttg	gttttagacgt	ccgggaattg	catctgtttt	taagcctaata	gtggggacag	240
ctcatgagt	caagacgtct	tgtgatgtaa	ttattatacn	aatgggggct	tcaatcggga	300
gtactactcg	attgtcaacg	tcaaggagtc	gcaggtcgcc	tggttctagg	aataatgggg	360
gaagtatgta	ggaattgaag	attaatccgc	cgtagtcggg	gttctcctag	gttcaatacc	420
attggtggcc	aattgatttg	atggtaaggg	gagggatcgt	tgaactcgtc	tgttatgtaa	480
aggatncctt	ngggatggga	aggcnatnaa	ggactangga	tnaatggcgg	gcangatatt	540
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gaatnttnng	gaaaagggct	tacaggacta	gaaaccaaata	angaaaanta	atnntaangg	660
cnttatcntn	aaaggttnata	accnctccta	tnatcccacc	caatngnatt	ccccacnenn	720
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817

<210> 8
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 <212> DNA
 <213> Homo sapien

 <220>
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 <222> (1)...(799)
 <223> n = A,T,C or G

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 ctgaagcgca cgtcccagaa ggtggacttg gcaactgaaac agctgggaca catccgcgag 180
 tacgaacagc gcctgaaagt gctggagcgg gaggtccagc agtgtagccg cgtcctgggg 240
 tgggtggccg angcctganc cgctctgcct tgctgcccc angtgggccg ccacccctg 300
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 ggattttgct cctanantaa ggtcatctg ggctcggcc cccccacctg gttggccttg 420
 tctttgagt gagcccatg tccatctggg ccaactgtcng gaccacctt ngggagtgtt 480
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 caagnctgn atccactnnt nctanaaccg gccnccnccg cngtggaacc cnccttntgt 600
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<210> 9
 <211> 801
 <212> DNA
 <213> Homo sapien

 <220>
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 <222> (1)...(801)
 <223> n = A,T,C or G

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 aatcccctgt gggggcttct ccttgaagtc cgccancagg gctcagtctt tggaccang 240
 caggctcatg ggttgtngnc caactggggg ccncaacgca aaanggnca gggcctcngn 300
 caccatccc angacgcggc tacactnctg gacctccnc tccaccactt tcatgcgtg 360
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 cncctantg caccnattcc cacttttnc agntttcnc nncngcttc cttntaaaag 540
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 gctgaantcc ccatnaccn gntcnatgg anccntccn tttaannacn ttctnaactt 660
 gggaananc ctcgnccntn ccccncttaa tccnccctg cnangnnct ccccnntcc 720
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<210> 10
 <211> 789
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(789)
 <223> n = A,T,C or G

<400> 10

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agatcctgcc	ctacacactg	gcctccctct	accaccggga	gaagcaggtg	ttcctgcccc	180
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tgctcccacc	tccaccgcg	ctctgcgggg	cctctgcctg	tgatgtctcc	gtacgtgtgg	360
tggtgggtga	gcccaccgan	gccagggtgg	ttccggggccg	gggcatctgc	ctggacctcg	420
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cccatttact	ttgctacaca	ggtantatnt	gacaagaacg	anttgcccaa	atactcagcg	600
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 <212> DNA
 <213> Homo sapien

<220>
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 <222> (1)...(772)
 <223> n = A,T,C or G

<400> 11

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tattcagctc	ccaaaaaccc	ttctctaggt	gtgtctcaac	taggaggcta	gctgttaacc	420
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gcacaggggtg	gcagcaaaaa	aaccacttta	ctttggcaca	aacaaaaact	ngggggggca	660
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<210> 12
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 <212> DNA

<223> n = A, T, C or G

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acacttgctc	tcagtcttan	caccatanca	gcccntgaaa	accaananca	aagaccacna	480
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agtggcccn	aaaatcttca	aaaaggatgc	cccatcnatt	gaccccccaa	atgccactg	600
ccaacaggg	ctgccccacn	cncnnaacga	tgancnatt	gnacaagatc	tcnctgggtct	660
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<213> Homo sapien

<223> n = A, T, C or G

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gttgaacac	caccatgaaa	gggctcaagt	gctgtggctt	cnccaacta	tacggatttt	600
gaagantcac	ctacttcaaa	gaaaaanagt	cctttccccc	atttctgttg	caattgacaa	660
acgtcccaa	cacagccaat	tgaaaacctg	cacccaaccc	aaangggtcc	ccaaccanaa	720
attnaagg						729

<213> Homo sapien

<221> misc feature

<222> (1)...(816)

<223> n = A,T,C or G

<400> 14

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ggcagggtcca	cgcagtgcc	tttgtcactg	gggaaatgga	tgcgctggag	ctcgtcaaag	180
ccactcgtgt	atctttcaca	ggcagcctcg	tccgacgcgt	cggggcagtt	gggggtgtct	240
tcacactcca	ggaaactgtc	natgcagcag	ccattgctgc	agcgggaactg	ggtgggctga	300
cangtgccag	agcacactgg	atggcgccct	tccatgnnan	gggccctgng	ggaaagtccc	360
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gcanatctgc	tccngggggg	tctantacc	ancgtgggaa	aagaacccca	ggcngcgaac	540
caancttggt	tggatncgaa	gcnataatct	ncntttctgc	ttgggtggaca	gcaccantna	600
ctgtnnanct	ttagnccntg	gtcctccttg	gttggncttg	aacctaatcn	ccnntcaact	660
gggacaaggt	aanngccnt	cctttnaatt	cccnancntn	ccccctggtt	tgggggttttn	720
cncnctccta	ccccgaaan	nccgtgttcc	cccccaacta	ggggccnaaa	ccnnttnttc	780
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<210> 15

<211> 783

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(783)

<223> n = A,T,C or G

<400> 15

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aagacccaaa	ccaggtggaa	ctgtggggac	tcaaggaang	cacctacctg	ttccagctga	180
cagtgactag	ctcagaccac	ccagaggaca	cggccaacgt	cacagtcaact	gtgctgtcca	240
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ttccacgctg	gtactatgac	cccacggagc	agatctgcaa	gagtttcgtt	tatggaggct	360
gcttgggcaa	caagaacaac	taccttcggg	aagaagagtg	cattctancc	tgtcnggggtg	420
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ncaatggctg	ctgcatcnac	antttcctng	aattgtgaca	acacccccca	ntgcccccaa	600
ccctcccaac	aaagcttccc	tgtnnaaaaa	tacnccantt	ggettttnac	aaacnccccg	660
cncctccttt	ttccccnntn	aacaaagggc	notngenttt	gaactgcccn	aaccnnggaa	720
tctnccnngg	aaaaantncc	ccccctggtt	cctnnaancc	cctccncnaa	anctncccc	780
ccc						783

<210> 16

<211> 801

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(801)

<223> n = A,T,C or G

gccccaatcc	cagctgcccac	accacccacg	gtgactgcat	tagttcggat	gtcatacaaa	60
agctgattga	agcaaccctc	tacttttttg	tcgtgagcct	tttgcttggt	gcaggtttca	120
ttggctgtgt	tggtgacgtt	gtcattgcaa	cagaatgggg	gaaaggcact	gttctctttg	180
aagtaggggtg	agtcctcaaa	atccgtatag	ttggtgaagc	cacagcactt	gagccctttc	240
atgggtgggtg	tccacacttg	agtgaagtct	tcctgggaac	cataatcttt	cttgatggca	300
ggcactacca	gcaacgtcag	gaagtgctca	gccattgtgg	tgtacaccaa	ggcgaccaca	360
gcagctgcaa	cctcagcaat	gaagatgagg	aggaggatga	agaagaacgt	cncgagggca	420
cacttgctct	ccgtcttagc	accatagcag	cccangaaac	caagagcaaa	gaccacaacg	480
ccngctgcga	atgaaagaaa	ntacccacgt	tgacaaactg	catggccact	ggacgacagt	540
tgccccgaan	atcttcagaa	aagggatgcc	ccatcgattg	aacaccana	tgcccactgc	600
cnacagggct	gcncncncn	gaaagaatga	gccattgaag	aaggatcntc	ntggtcttaa	660
tgaactgaaa	ccntgcatgg	tggccccctgt	tcagggtctc	tggcagtgaa	ttctganaaa	720
aaggaachnc	ntnagcccc	ccaaangana	aaacaccccc	gggtgttgcc	ctgaattggc	780
ggccaaggan	ccctgccccn	g				801

<223> n = A, T, C or G

gtgagagcca	ggcgtccctc	tgcctgccca	ctcagtgcca	acaccgggga	gctgttttgt	60
cctttgtgga	ggctcagcag	ttccctcttt	cagaactcac	tgccaagagc	cctgaacagg	120
agccaccatg	cagtgtttca	gcttcattaa	gaccatgatg	atcctcttca	atttgctcat	180
ctttctgtgt	ggtgcagccc	tgttggcagt	gggcatctgg	gtgtcaatcg	atggggcatc	240
ctttctgaag	atcttcgggc	cactgtcgtc	cagtgccatg	cagtttgtca	acgtgggcta	300
cttcctcatc	gcagccggcg	ttgtgggtct	tgctcttggt	ttcctgggct	gctatgggtgc	360
taagacggag	agcaagtgtg	ccctcgtgac	gttctttctc	atcctcctcc	tcattcttcat	420
tgctgaagtt	gcagctgctg	tggtcgcctt	ggtgtacacc	acaatggctg	aaccatttct	480
gacgttgctg	gtantgcctg	ccatcaanaa	agattattgg	ttcccaggaa	aaattcactc	540
aantntggaa	caccnccatg	aaaagggtc	caattttctg	tggcttcccc	acattataccg	600
gaattttgaa	agantcnccc	tacttccaaa	aaaaaanant	tgcctttnc	ccntttctgt	660
tgcaatgaaa	acntcccaan	acngccaatn	aaaacctgcc	cnnncaaaaa	ggntcncaaa	720
caaaaaaant	nnaagggttn					740

<223> n = A, T, C or G

ccgctggttg cgctggcca gngnagccac gaagcacgtc agcatacaca gcctcaatca 60

```
<210> 19
<211> 731
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G
```

```
<210> 20
<211> 754
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G
```

<400> 20						
tttttttttt	tttttttttt	taaaaacccc	ctccattnaa	tgnaaacctc	cgaaattgtc	60
caaccacctc	ntccaaatnn	ccntttccgg	gnggggggtc	caaacccean	ttanntttgg	120
annttaatt	aaatnttntt	tggnggggna	accnaatgt	nangaaagtt	naaccanta	180
tnancttnaa	tnctctgaaa	cngntngntt	ccaaaaaatn	ttaaccctta	antccctcgg	240

```

aatngttna nggaaaaccc aanttctcnt aaggttggtt gaaggntnaa tnaaaaanccc 300
nnccaattgt ttttngccac gcctgaatta attggnttcc gntgttttcc nttaaaanaa 360
ggnnancccc gggtantnaa tccccccnnc cccaattata ccganttttt ttngaattgg 420
gancccnccg gaattaacgg ggnnnnntccc tnttgggggg cnggnncccc ccccntcggg 480
ggttngggnc aggnccnaat tgtttaaggg tccgaaaaat ccctccnaga aaaaaanctc 540
ccaggntgag nntnggggtt nccccccccc canggccct ctcgnanagt tggggtttgg 600
ggggcctggg attttntttc cctnttncc tccccccccc ccnggganag aggttngngt 660
tttgntcnnc ggcccnccn aaganctttn ccganttnan ttaaactcnt gcctnggcga 720
agtccttgn agggntaaan ggccccctnn cggg 754

```

```

<210> 21
<211> 755
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

```

```

<400> 21
atcancccat gaccccnac nngggaccnc tcanccggnc nnncnaccnc cggccnatca 60
nngtnagnnc actncnnttn natcacnccc cncnactac gcccnananc cnacgcnccta 120
nncanatncc actganngcg cganngtan ngagaaanct nataccanag naccanacn 180
ccagctgtcc nanaangcct nnnatacnng nnnatccaat ntgnancctc cnaagtattn 240
nnnnnccan gattttcctn anccgattac cctncccccc tancecctcc cccccacna 300
cgaaggcnct ggncncaagg nngcgnccnc ccgctagntc ccnncaagt cncncccta 360
aactcanccn nattaacncc ttcttgagta tcaactcccc aatctcacc tactcaactc 420
aaaaanatch gatacaaaat aatncaagcc tgnttatnac actntgactg ggtctctatt 480
ttagnngtcc ntnaancntc ctaatacttc cagtctncc tcnccaattt ccnaanggct 540
ctttcngaca gcatnttttg gttcccnntt gggttcttan ngaattgcc ttctntgaac 600
gggtctntct tttccttcgg ttanccctgn ttcnccggc cagttattat ttccntttt 660
aaattcntnc cntttanttt tggcntttna aacccccggc cttgaaaacg gccccctggt 720
aaaaggttgt tttganaaaa tttttgtttt gttcc 754

```

```

<210> 22
<211> 849
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(849)
<223> n = A,T,C or G

```

```

<400> 22
tttttttttt tttttangtg tngtcgtgca ggtagaggct tactacaant gtgaanacgt 60
acgctnggan taangcgacc cgantttctag ganncnccct aaaatcanac tgtgaagatn 120
atcctgnnna cggaanggtc accggnngat nntgctaggg tgncnctcc cannncttn 180
cataactcng nggccctgcc caccaccttc ggcggcccng ngncggggc cgggtcattn 240
gnnttaaccn cactnngcna ncggtttccn nccccnncg accnnggoga tccggggtnc 300
tctgtcttcc cctgnagncn anaaantggg ccnccgnccc ctttaccct nnacaagcca 360
cngcctteta nccnngccc cccctccant nngggggact gccnanngct ccgttntctg 420
nnaccccnnn gggtncctcg gttgtcgant cnaccgnang ccanggatc cnaaggaagg 480

```

tgcgttnttg	gcccctaccc	ttogetnccg	nncacccttc	ccgacnanga	nccgctcccg	540
cncnncgnng	cctcncctcg	caacacccgc	netcntcngt	ncggnnnccc	ccccacccgc	600
nccctcnenc	ngncgnannc	ctccnccncc	gtctcannca	ccaccccgcc	ccgccaggcc	660
ntcanccacn	ggnnagcnng	nagcncnntc	gcncgcgcgn	gcgncnccct	cgcncngaa	720
ctnctcngg	ccantnnccg	tcaanccnna	cnaaacgccg	ctgcgcggcc	cgnagcgncc	780
ncctcncga	gtcctcccgn	cttccnacce	angnnttccn	cgaggacacn	nnaccccgcc	840
nncangcgg						849

<210> 23
 <211> 872
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(872)
 <223> n = A,T,C or G

<400> 23						
gcgcaaaacta	tacttcgctc	gnaactcgtgc	gcctcgcctnc	tcttttccctc	cgcaaccatg	60
tctgacnanc	ccgattnggc	ngatatacnan	aagntcganc	agtccaaact	gantaacaca	120
cacacnncan	aganaaatcc	nctgccttcc	anagtanacn	attgaacnng	agaaccangc	180
nggcgaatcg	taatnaggcg	tgcgcgcgcca	atntgtcncc	gtttattntn	ccagcncnc	240
ctnccnacct	tacntcttcn	nagctgtcnn	acccctngtn	cgnaccccccc	naggtcggga	300
tccgggttttn	nntgaccngg	cnnccccctcc	ccccctccat	nacganccnc	ccgcaccacc	360
nanngcncgc	nccccgnnct	cttcgcncnc	ctgtccctntn	cccctgtngc	ctggcncngn	420
accgcattga	ccctcgccnn	ctnccnngaaa	ncgnanaagc	ccgggttggn	annancgctg	480
tgggnnngcg	tctgencgcg	gttccttccn	ncncttccca	ccatcttctc	tacngggtct	540
ccncgccttc	tcnnncacnc	cctgggacgc	tnctcctntgc	cccccttnac	tccccccctt	600
cgnccgtgnc	cgnccccacc	ntcatttnca	nacgntcttc	acaannncct	ggntnnctcc	660
cnancngnnc	gtcanccnag	ggaaggngng	ggnnccnntg	nttgacgttg	nggngangtc	720
cgaanantcc	tcnccntcan	cncctacccct	cgggcggnct	ctcngttnc	aacttancaa	780
ntctcccccg	ngngcncntc	tcagcctcnc	ccnccccnct	ctctgcantg	tnctctgctc	840
tnaccnntac	gantnttcgn	cncctctttt	cc			872

<210> 24
 <211> 815
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> n = A,T,C or G

<400> 24						
gcattgcaagc	ttgagtattc	tatagngtca	cctaaatanc	ttggcntaat	catggtcnta	60
netgncttcc	tgtgtcaaata	gtataacnaa	tanatatgaa	tctnatntga	caaganngta	120
tctntcatta	gtaacaantg	tnntgtccat	cctgtengan	canattccca	tnnattncgn	180
cgcattnccn	gcncantatn	taatngggaa	ntcnntnnnn	ncacenncat	ctatctntcc	240
gcnccttgac	tggnagagat	ggatnantt	tnntntgacc	nacatgttca	tcttggaatn	300
aanancccc	cgcnngccac	cggttngnng	cnagccnntc	ccaagacctc	ctgtggaggt	360
aacctgcgtc	aganncatca	aacntgggaa	acccgcnncc	angtnnaagt	ngnnncanan	420
gatcccgctc	aggnttnacc	atcccttcnc	agcgccccct	ttngtgcctt	anagnnagc	480

gtgtccnanc	cnetcaacat	ganacgcgcc	agnccanccg	caattnggca	caatgtcgnc	540
gaaccccccta	ggggganntna	tncaaanccc	caggattgtc	cncncangaa	atcccnanc	600
ccnccctac	ccncttttg	gacngtgacc	aantcccga	gtncagtc	ggcngnctc	660
ccccaccgt	nncntggg	gggtgaanct	cngnntcanc	cngncgaggn	ntcgnaagga	720
accggncctn	ggncgaann	ancnntcnga	agngccnct	cgtataacc	cccctcncca	780
nccnacngnt	agntccccc	cngggtnccg	aangg			815

<210> 25
 <211> 775
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(775)
 <223> n = A,T,C or G

<400> 25						
cagagatgtc	tgcgtccgtg	gccttagctg	tgtctcgct	actctctctt	tctggcctgg	60
aggctatcca	gcgtactcca	aagattcagg	tttactcaag	tcattccagca	gagaatggaa	120
agtcaaattt	cctgaattgc	tatgtgtctg	ggtttcatcc	atccgacatt	gaanttact	180
tactgaagaa	tgganagaga	attgaaaaag	tggagcattc	agacttgtct	ttcagcaagg	240
actggtcttt	ctatctctng	tactacactg	aattcacccc	caactgaaaa	gatgagtatg	300
cctgccgtgt	gaaccatgtg	actttgtcac	agccccagat	agttaagtgg	gatcgagaca	360
tgtgaagcagn	cnncatggaa	gtttgaagat	gccgcatttg	gattggatga	attccaaatt	420
ctgcttgctt	gcnttttaat	antgatatgc	ntatacaccc	taccctttat	gncccccatt	480
tgtaggggtt	acatnantgt	tcnctnngga	catgatcttc	ctttataant	cnccnttcg	540
aattgcccgt	cnccncttn	ngaagtgttc	cnnaaccaag	gttggtccc	ccaggtcncc	600
tcttacggaa	gggctgggc	cnctttncaa	ggttggggga	accnaaaatt	tcncttntgc	660
cncccncca	cnntcttng	nncncanttt	ggaacccttc	cnattccct	tggcctcnna	720
nccttnncta	anaaaacttn	aaancgtngc	naaanntttt	acttcccccc	ttacc	775

<210> 26
 <211> 820
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(820)
 <223> n = A,T,C or G

<400> 26						
anattantac	agtgtaatct	tttcccagag	gtgtgtanag	ggaacggggc	ctagaggcat	60
cccanagata	ncttatanca	acagtgtctt	gaccaagagc	tgttgggcac	atttctgca	120
gaaaagggtg	cgggtcccc	cactctcct	ctcccatagc	catcccagag	gggtgagtag	180
ccatcangcc	ttcgggtgga	gggagtcang	gaaacaacan	accacagagc	anacagacca	240
ntgatgacca	tgggcgggag	cgagcctctt	ccctgnaccg	gggtggcana	nganagccta	300
nctgaggggt	cacactataa	acgttaacga	ccnagatnan	cacctgtctc	aagtgcaccc	360
ttcctacctg	acnaccagng	accnnnaact	gcngcctggg	gacagcctg	ggancagcta	420
acnagcaact	cacctgcccc	cccatggccg	tnccgntccc	tggctcctgnc	aagggaagct	480
ccctgttgga	attncgggga	naccaaggga	nccccctcct	ccanctgtga	aggaaaaann	540
gatggaattt	tncccttccg	gccnntcccc	tcttccctta	cacgccccct	nntactctc	600
tocctctntt	ntcctgncnc	acttttnacc	ccnnnatctt	ccttnattga	tcggannctn	660

```
<210> 27
<211> 818
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G
```

```
<210> 28
<211> 731
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G
```

<400> 28						
aggaagggcg	gagggatatt	gtangggatt	gagggatagg	agnataangg	gggaggtgtg	60
tccaacatg	anggtgnngt	tctcttttga	angagggttg	ngtttttann	ccnggtgggt	120
gattnaacc	cattgtatgg	agnnaaaggn	tttnagggat	ttttcggtc	ttatcagtat	180
ntanattcct	gtnaatcgga	aaatnatntt	tcnncnggaa	aatnttgctc	ccatccgnaa	240
attnctccg	ggtagtgc	nttngggggg	cngccangtt	tcccaggctg	ctanaatcgt	300
actaaagntt	naagtgggan	tncaaatgaa	aacctnncac	agagnatccn	taccgcgactg	360
tnnnnttncct	tcgccctntg	actctgcnn	agcccaatac	ccnngngnat	gtcncccngn	420
nnngcgnnc	tgaaannnnc	tcngnggetnn	gancatcang	gggtttcgca	tcaaaagcnn	480
cgtttencat	naaggcaactt	tngectcatc	caaccnctng	ccctcnncca	tttngcgctc	540
nggttencct	acgctnnntng	cncctnnntn	ganattttnc	cgcctnngg	naancctcct	600
gnaatggga	ggngcttntc	ttttnacenn	gnggtntact	aatcnnctnc	acgcntnctt	660
gtcnacccc	cccccttttt	caatcccanc	ggcnaatggg	gtctccccnn	cgangggggg	720
nncccannc	c					731

<400> 29

```
<210> 30
<211> 787
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G
```

<400> 30

cggccgcctcg	ctctggcaca	tgcctcctga	atggcatcaa	aagtgatgga	ctgccattg	60
ctagagaaga	ccttctctcc	tactgtcatt	atggagccct	gcagactgag	ggctcccctt	120
gtctgcagga	tttgatgtct	gaagtcgtgg	agtgtggctt	ggagctcctc	atctacatna	180
gctggaagcc	ctggagggcc	tctctcgcca	gcctccccct	tctctccacg	ctctccangg	240
acaccagggg	ctccaggcag	cccattattc	ccagnangac	atggtgtttc	tccacgcgga	300
cccatggggc	ctgnaaggcc	aggggtctcct	ttgacaccat	ctctcccgtc	ctgcctggca	360
ggccgtggga	tccactantt	ctanaacggn	cgccaccncg	gtgggagctc	cagcttttgt	420
tcccnttaat	gaagggtaat	tgcncgcttg	gcgtaatcat	nggtcanaac	tntttcctgt	480
gtgaaattgt	ttntcccctc	ncnatccnc	ncnacatacn	aacccggaan	cataaagtgt	540
taaagcctgg	gggtngcctn	nngaattnaac	tnaactcaat	taattgcgtt	ggctcatggc	600
ccgctttccn	ttcnggaaaa	ctgtcntccc	ctgcnttnnt	gaatcggcca	ccccccnggg	660
aaaagcggtt	tgcnttttng	ggggntcctt	ccntctcccc	ctcncntaan	ccctncgcct	720
cggtcgttnc	nggtngcggg	gaangggnat	nnnctccnc	naagggggng	agnnngntat	780
ccccaaa						787

<210> 31

```
<220>
<221> misc_feature
<222> (1)...(799)
<223> n = A,T,C or G
```

```
<210> 32
<211> 789
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G
```

<210>	33
<211>	793
<212>	DNA

$\langle 220 \rangle$

<400> 35

<210> 36

<212> DNA

 $\langle 220 \rangle$
$$\langle 222 \rangle \quad (1) \dots (814)$$

<400> 36

<210> 37

<211> 760

<212> DNA

 $\langle 220 \rangle$

<222> (1) ... (760)

tttttttttt tttttctttg ctcacattta attttttattt tgattttttt taatgctgca 60

```

caacacaata tttatttcat ttgtttcttt tatttcattt tatttgtttg ctgctgctgt 120
tttatttatt tttactgaaa gtgagaggga acttttgtgg ctttttttcc tttttctgta 180
ggcgcctta agctttctaa atttgaaca tctaagcaag ctgaanggaa aaggggggtt 240
cgcaaaatca ctcgggggaa nggaaaggtt gctttgttaa tcatgcccta tggtaggtga 300
ttaactgctt gtacaattac ntttcacttt taattaattg tgctnaangc ttttaattana 360
cttgggggtt cctcccccac accaaccncc ctgacaaaaa gtgccngccc tcaaatnatg 420
tcccggcnnt cnttgaaaca cacngcngaa ngttctcatt ntcccccnc caggtnaaaa 480
tgaagggtta ccatntttta cncacactcc acntggcnnn gcctgaatcc tcnaaaancn 540
ccctcaancn aattnctnng ccccggtcnc gcntnngtcc cncccgggct ccgggaantn 600
cacccccnga anncnntnnc naacnaaatt ccgaaaatat tcccnntcnc tcaattcccc 660
cnnagactnt cctcnncnan cncaattttc ttttnntcac gaacncgnnc cnnaaaatgn 720
nnnnncctc cncngtccn naatcnccan c 751

```

```

<210> 40
<211> 753
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

```

```

<400> 40
gtggtatttt ctgtaagatc aggtgttcct cctctgtagg tttagaggaa acaccctcat 60
agatgaaaac ccccccgaga cagcagcact gcaactgcc aagcagccgg gttagggggg 120
cgccctatgc acagctgggc ccttgagaca gcagggttc gatgtcagg tcgatgtcaa 180
tgggtctgaa gcggcggctg tacctgcgta ggggcacacc gtcaggggcc accaggaact 240
tctcaaagtt ccaggcaacn tcgttgcgac acaccggaga ccagggtgatn agcttggggg 300
cggtcataa cgcgggtggc tcgtcgcctg gagctggcag ggcctcccgc aggaaggcna 360
ataaaaggtg cgcccccgca ccgttcant cgcacttctc naanaccatg angttgggct 420
cnaaccacc accannccgg acttccttga nggaattccc aaatctcttc gntcttgggc 480
ttctnctgat gccctanctg gttgccnngn atgccaanca nccccaancc ccgggggtcct 540
aaanaccncc cctcctcctt tcatctgggt tntntcccc ggacnttgg tctctcaag 600
ggancccata tctcnaccan tactcacnt nccccccnt gnnaccanc cttctanngn 660
tccccnccg ncctctggcc cntcaaanan gcttncaacna cctgggtctg cttcccccc 720
tnccctatct gnaccnccn tttgtctcan tnt 753

```

```

<210> 41
<211> 341
<212> DNA
<213> Homo sapien

```

```

<400> 41
actatatcca tcacaacaga catgcttcat cccatagact tcttgacata gcttcaaagt 60
agtgaaccca tccttgattt atatacatat atgttctcag tattttggga gcctttccac 120
ttctttaaac ctgtttcatt atgaacactg aaaataggaa tttgtgaaga gttaaaaagt 180
tatagcttgt ttacgtagta agtttttgaa gtctacattc aatccagaca cttagttgag 240
tgttaaactg tgatttttaa aaaatatcat ttgagaatat tctttcagag gtattttcat 300
ttttactttt tgattaattg tgttttatat attagggtag t 341

```

```

<210> 42
<211> 101
<212> DNA

```


<213> Homo sapien

<400> 42

```
acttactgaa tttagttctg tgctcttctt tatttagtgt tgtatcataa atactttgat 60
gtttcaaaca ttctaaataa ataattttca gtggcttcat a 101
```

<210> 43

<211> 305

<212> DNA

<213> Homo sapien

<400> 43

```
acatctttgt tacagtctaa gatgtgttct taaatcacca ttccttcctg gtcctcaccc 60
tccaggggtgg tctcacactg taattagagc tattgaggag tctttacagc aaattaagat 120
tcagatgcct tgctaagtct agagttctag agttatgttt cagaaagtct aagaaaccca 180
cctcttgaga ggtcagtaaa gaggacttaa tatttcatat ctacaaaatg accacaggat 240
tggatacaga acgagagtta tcctggataa ctacagagctg agtacctgcc cgggggcccgc 300
tcgaa 305
```

<210> 44

<211> 852

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(852)

<223> n = A,T,C or G

<400> 44

```
acataaatat cagagaaaag tagtctttga aatattttacg tccaggagtt ctttgtttct 60
gattatttgg tgtgtgtttt ggtttgtgtc caaagtattg gcagcttcag ttttcatttt 120
ctctccatcc tcgggcattc ttcccaaatt tatataccag tcttcgtcca tccacacgct 180
ccagaatttc tctttttag tagtatctca tagctcggct gagcttttca taggtcatgc 240
tgctgttggt cttcttttta ccccatagct gagccactgc ctctgatttc aagaacctga 300
agacgccctc agatcgggtc tcccatttta ttaatcctgg gttcttgtct gggttcaaga 360
ggatgtcgcg gatgaattcc cataagttag tccctctcgg gttgtgcttt ttgggtgtggc 420
acttggcagg ggggtcttgc tcctttttca tatcagggtga ctctgcaaca ggaaggtgac 480
tggtgggtgt catggagatc tgagcccggc agaaagtatt gctgtccaac aaatctactg 540
tgctaccata gttgggtgtc tataaatagt tctngtcttt ccagggtgtc atgatggaag 600
gctcagtttg ttcagtcttg acaatgacat tgtgtgtgga ctggaacagg tccactactgc 660
actggccggt ccacttcaga tgctgcaagt tgctgtagag gagntgcccc gccgtccctg 720
ccgcccgggt gaactcctgc aaactcatgc tgcaaagggt ctgcgcgttg atgtcgaact 780
cntggaaagg gatacaattg gcatccagct ggttgggtgtc caggaggtga tggagccact 840
cccacacctg gt 852
```

<210> 45

<211> 234

<212> DNA

<213> Homo sapien

<400> 45

```
acaacagacc cttgtctgct aacgacctca tgctcatcaa gttggacgaa tccgtgtccg 60
agtctgacac catccggagc atcagcattg cttcgcagtg ccctaccgcg gggaactctt 120
```

```

gcctcgtttc tggctggggt ctgctggcga acggcagaat gcctaccgtg ctgcagtgcg      180
tgaacgtgtc ggtggtgtct gaggaggtct gcagtaagct ctatgaccgc ctgt          234

```

```

<210> 46
<211> 590
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(590)
<223> n = A,T,C or G

```

```

<400> 46
acttttttatt taaatgttta taaggcagat ctatgagaat gatagaaaac atgggtgtgta      60
atttgatagc aatatttttg agattacaga gtttttagtaa ttaccaatta cacagttaaa      120
aagaagataa tatattccaa gcanatacaa aatatctaata gaaagatcaa ggcaggaaaa      180
tgantataac taattgacaa tggaaaatca attttaatgt gaattgcaca ttatccttta      240
aaagctttca aaanaaanaa ttattgcagt ctanttaatt caaacagtgt taaatgggtat      300
caggataaan aactgaaggg canaaagaat taattttcac ttcattgtaac ncacccanat      360
ttacaatggc ttaaattgcan ggaaaaagca gtggaagtag ggaagtantc aaggtccttc      420
tggtctctaa tctgccttac tctttgggtg tggctttgat cctctggaga cagctgccag      480
ggctcctgtt atatccacaa tcccagcagc aagatgaagg gatgaaaaag gacacatgct      540
gccttccttt gaggagactt catctcactg gccaaactc agtcacatgt          590

```

```

<210> 47
<211> 774
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

```

```

<400> 47
acaagggggc ataatgaagg agtggggana gatttttaaag aaggaaaaaa aacgaggccc      60
tgaacagaat ttctctgnac aacggggcct caaaataatt ttcttgggga ggttcaagac      120
gcttcactgc ttgaaactta aatggatgtg ggacanaatt ttctgtaatg accctgaggg      180
cattacagac gggactcttg gaggaaggat aaacagaaaag gggacaaaag ctaatcccaa      240
aacatcaaag aaaggaagggt ggcgtcatal ctcccagcct acacagttct ccagggtctt      300
cctcatccct ggaggacgac agtggaggaa caactgacca tgtccccagg ctctgtgtg      360
ctggctcctg gtcttcagcc cccagctctg gaagcccacc ctctgctgat cctgcgtggc      420
ccacactcct tgaacacaca tcccaggtt atattccttg acatggctga acctcctatt      480
cctacttcog agatgccttg ctccctgcag cctgtcaaaa tccactcac cctccaaacc      540
acggcatggg aagcctttct gacttgcttg attactccag catcttggaa caatccctga      600
ttcccacatc cttagaggca agataggggt gttaagagta gggctggacc acttgagacc      660
aggctgctgg cttcaaattt tggctcattt acgagctatg ggaccttggg caagtnatct      720
tcacttctat gggentcatt ttgttctacc tgcaaaatgg gggataataa tagt          774

```

```

<210> 48
<211> 124
<212> DNA
<213> Homo sapien

```

```

<400> 48
canaaaattga aattttataa aaaggcattt ttctcttata tccataaaat gatataatTTT    60
ttgcaantat anaaatgtgt cataaattat aatgttcctt aattacagct caacgcaact    120
tggt                                     124

```

```

<220>
<221> misc_feature
<222> (1)...(147)
<223> n = A,T,C or G

<400> 49
gccgatgcta ctattttatt gcaggagggtg ggggtgtttt tattattctc tcaacagctt      60
tgtggctaca ggtggtgtct gactgcatna aaaanttttt tacgggtgat tgcaaaaatt      120
ttagggcacc catatcccaa gcantgt                                     147

```

<400> 50
acattaaatt aataaaagga ctgttggggt tctgctaaaa cacatggctt gatatatattgc 60
atggttttgag gttaggagga gttaggcata tgttttggga gaggggt 107

<400>	51						
gtcctaggaa	gtctagggga	cacacgactc	tggggtcacg	gggccgacac	acttgcacgg		60
cggaagaa	aggcagagaa	gtgacaccgt	cagggggaaa	tgacagaaag	gaaaatcaag		120
gccttgcaag	gtcagaaaag	ggactcaggg	cttcaccac	agccctgcc	cacttgcca		180
cctccctttt	cgcaccacga	atgt					204

```
<220>  
<221> misc_feature  
<222> (1)...(491)
```

<223> n = A,T,C or G

<400> 52

acaaagataa	catttatctt	ataacaaaaa	tttgatagtt	ttaaagggtta	gtatttgtga	60
gggtattttc	caaaagacta	aagagataac	tcaggtaaaa	agttagaaat	gtataaaaca	120
ccatcagaca	ggttttttaa	aaacaacata	ttacaaaatt	agacaatcat	ccttaaaaaa	180
aaaacttctt	gtatcaattt	cttttggtca	aaatgactga	cttaantatt	tttaaatttt	240
tcanaaacac	ttcctcaaaa	attttcaana	tggtagcttt	canatgtnc	ctcagtccca	300
atgttgctca	gataaataaa	tctcgtgaga	acttaccacc	caccacaagc	tttctggggc	360
atgcaacagt	gtcttttctt	tnttttttct	tttttttttt	ttacaggcac	agaaactcat	420
caattttatt	tggataacaa	aggggtctcca	aatttatattg	aaaaataaat	ccaagttaat	480
atcactcttg	t					491

<210> 53

<211> 484

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(484)

<223> n = A,T,C or G

<400> 53

acataattta	gcagggtctaa	ttaccataag	atgctattta	ttaanaggtn	tatgatctga	60
gtattaacag	ttgctgaagt	ttgggtatttt	tatgcagcat	tttctttttg	ctttgataac	120
actacagaac	ccttaaggac	actgaaaatt	agtaagtaaa	gttcagaaac	attagctgct	180
caatcaaadc	tctacataac	actatagtaa	ttaaaacggt	aaaaaaaagt	gttgaaatct	240
gcactagtat	anaccgctcc	tgtcaggata	anactgcttt	ggaacagaaa	gggaaaaanc	300
agctttgant	ttctttgtgc	tgatangagg	aaaggctgaa	ttacctgttt	gcctctccct	360
aatgattggc	aggtcnggta	aatnccaaaa	catattccaa	ctcaacactt	cttttccnccg	420
tancttgant	ctgtgtattc	caggancagg	cggatggaat	gggccagccc	ncggatgttc	480
cant						484

<210> 54

<211> 151

<212> DNA

<213> Homo sapien

<400> 54

actaaacctc	gtgcttgtga	actccatata	gaaaacgggtg	ccatccctga	acacggctgg	60
ccactgggta	tactgctgac	aaccgcaaca	acaaaaacac	aaatccttgg	cactggctag	120
tetatgtcct	ctcaagtgcc	tttttgtttg	t			151

<210> 55

<211> 91

<212> DNA

<213> Homo sapien

<400> 55

acctgggttg	tctccgggtg	gttcccggcg	ccccccacgg	tccccagAAC	ggacactttc	60
gccctccagt	ggatactcga	gccaaagtgg	t			91

<210> 56

<211> 133
 <212> DNA
 <213> Homo sapien

<400> 56
 ggcggatgtg cggttggttat atacaaatat gtcattttat gtaagggact tgagtatact 60
 tggatttttg gtatctgtgg gttgggggga cgggccagga accaatacc catggatacc 120
 aagggacaac tgt 133

<210> 57
 <211> 147
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(147)
 <223> n = A,T,C or G

<400> 57
 actctggaga acctgagccg ctgctccgcc tctgggatga ggtgatgcan gcngtggcgc 60
 gactgggagc tgagcccttc cctttgcgcc tgccctcagag gattgttgcc gacntgcana 120
 tctcantggg ctggatncat gcagggt 147

<210> 58
 <211> 198
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(198)
 <223> n = A,T,C or G

<400> 58
 acagggatat aggttttnaag ttattgtinat tgtaaaatac attgaatttt ctgtatactc 60
 tgattacata catttatcct ttaaaaaaga tgtaaactctt aatttttatg ccatctatta 120
 atttaccaat gagttacctt gtaaatgaga agtcatgata gcactgaatt ttaactagtt 180
 ttgacttcta agtttggt 198

<210> 59
 <211> 330
 <212> DNA
 <213> Homo sapien

<400> 59
 acaacaaatg ggttgtgagg aagtcttatc agcaaaaactg gtgatggcta ctgaaaagat 60
 ccattgaaaa ttatcattaa tgatttttaa tgacaagtta tcaaaaactc actcaatttt 120
 cacctgtgct agcttgctaa aatgggagtt aactctagag caaatatagt atcttctgaa 180
 tacagtcaat aaatgacaaa gccagggcct acaggtgggt tccagacttt ccagaccag 240
 cagaaggaat ctattttatc acatggatct ccgctctgtgc tcaaaatacc taatgatatt 300
 tttcgtcttt attggacttc tttgaagagt 330

<210> 60

```

<400> 60
accgtgggtg ctttctacat tcctgacggc tccttcacca acatctggtt ctacttcggc      60
gtcgtgggct ctttctctt catctctatc cagctgggtc tgctcatcga ctttgcgcac      120
tcctggaacc agcggtggtt gggcaaggcc gaggagtgc attcccgtc ctggt          175

```

```

<400> 61
accccaacttt tctcctgtg agcagttctgg acttctcact gctacatgat gaggggtgagt 60
ggttggttgc tttcaacagt atcctcccct ttccggatct gctgagccgg acagcagtg 120
tggaactgcac agccccgggg ctccacattg ctgt 154

```

<400> 62
cgctcgagcc ctatagtgag tcgtattaga 30

```

      <400> 63
acaagtcatt tcagcaccoct ttgotcttca aaactgacca tcttttatat ttaatgcttc      60
ctgtatgaat aaaaatgggt atgtcaagt                                           89

```

```

      <400> 64
accggagtaa ctgagtcggg acgctgaatc tgaatccacc aataaataaa ggttctgcag      60
aatcagtgca tccaggattg gtccttggat ctgggggt                                97

```

```
<220>
<221> misc_feature
<222> (1)...(377)
<223> n = A,T,C or G
```

<400> 65
 acaacaanaa ntccctttctt taggccactg atggaaacct ggaaccccct tttgatggca 60
 gcatggcgctc ctaggccttg acacagcggc tggggtttgg gctntcccaa accgcacacc 120
 ccaaccctgg tctaccaca nttctggcta tgggctgtct ctgccactga acatcagggg 180
 tcggtcataa natgaaatcc caanggggac agaggtcagt agaggaagct caatgagaaa 240
 ggtgctgttt gctcagccag aaaacagctg cctggcattc gccgctgaac tatgaacccg 300
 tgggggtgaa ctacccccan gaggaatcat gcctgggcga tgcaanggtg ccaacaggag 360
 gggcgggagg agcatgt 377

<210> 66
 <211> 305
 <212> DNA
 <213> Homo sapien

<400> 66
 acgcctttcc ctccagaattc agggaagaga ctgtcgccctg ccttcctccg ttgttgctg 60
 agaaccgctg tgcccttcc caccatatcc accctcgctc catctttgaa ctcaaacacg 120
 aggaactaac tgcacctgg tctctcccc agtccccagt tcacctcca tccctcacct 180
 tctccactc taagggatat caacactgcc cagcacaggg gccctgaatt tatgtggttt 240
 ttatatatatt ttaataaga tgcactttat gtcatttttt aataaagtct gaagaattac 300
 tgttt 305

<210> 67
 <211> 385
 <212> DNA
 <213> Homo sapien

<400> 67
 actacacaca ctccacttgc ccttgtgaga cactttgtcc cagcacttta ggaatgctga 60
 ggtcggacca gccacatctc atgtgcaaga ttgccagca gacatcaggc ctgagagttc 120
 cctttttaaa aaaggggact tgcttaaaaa agaagtctag ccacgattgt gtagagcagc 180
 tgtgctgtgc tggagattca cttttgagag agttctcctc tgagacctga tctttagagg 240
 ctgggcagtc ttgcacatga gatggggctg gtctgatctc agcactcctt agtctgcttg 300
 cctctcccag ggccccagcc tggccacacc tgcttacagg gcactctcag atgccatac 360
 catagtttct gtgctagtgg accgt 385

<210> 68
 <211> 73
 <212> DNA
 <213> Homo sapien

<400> 68
 acttaaccag atatattttt accccagatg gggatattct ttgtaaaaaa tgaaaataaa 60
 gtttttttaa tgg 73

<210> 69
 <211> 536
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(536)

<223> n = A,T,C or G

<400> 69

actagtccag	tgtggtggaa	ttccattgtg	ttgggggctc	tcaccctcct	ctcctgcagc	60
tccagctttg	tgtcttgcct	ctgaggagac	catggcccag	catctgagta	ccctgctgct	120
cctgctggcc	accctagctg	tggccctggc	ctggagcccc	aaggaggagg	ataggataat	180
cccggtggc	atctataacg	cagacctcaa	tgatgagtgg	gtacagcgtg	cccttcactt	240
cgccatcagc	gagtataaca	aggccaccaa	agatgactac	tacagacgtc	cgctgcgggt	300
actaagagcc	aggcaacaga	ccgttggggg	ggtgaattac	ttcttcgacg	tagaggtggg	360
ccgaaccata	tgtaccaagt	cccagcccaa	cttggacacc	tgtgccttcc	atgaacagcc	420
agaactgcag	aagaaacagt	tgtgctcttt	cgagatctac	gaagtccct	ggggagaaca	480
gaangtcct	gggtgaaatc	caggtgtcaa	gaaatcctan	ggatctgttg	ccaggc	536

<210> 70

<211> 477

<212> DNA

<213> Homo sapien

<400> 70

atgacccta	acaggggcc	tctcagccct	cctaattgacc	tccggcctag	ccatgtgatt	60
tcacttccac	tccataacgc	tcctcatact	aggcctacta	accaacacac	taaccatata	120
ccaatgatgg	cgcgatgtaa	cacgagaaag	cacataccaa	ggccaccaca	caccacctgt	180
ccaaaaaggc	cttcgatacg	ggataatcct	atttattacc	tcagaagttt	ttttcttcgc	240
agggattttt	ctgagccctt	taccactcca	gcctagcccc	taccccccaa	ctaggagggc	300
actggccccc	aacaggcatc	accccgctaa	atcccttaga	agtcccactc	ctaaacacat	360
ccgtattact	cgcatcagga	gtatcaatca	cctgagctca	ccatagtcta	atagaaaaca	420
accgaaacca	aattattcaa	agcactgctt	attacaattt	tactgggtct	ctattttt	477

<210> 71

<211> 533

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(533)

<223> n = A,T,C or G

<400> 71

agagctatag	gtacagtgtg	atctcagctt	tgcaaacaca	ttttctacat	agatagtact	60
aggtattaat	agatatgtaa	agaaagaaat	cacaccatta	ataatggtaa	gattggttta	120
tgtgatttta	gtggtatttt	tggcaccctt	atatatgttt	tccaaacttt	cagcagtgat	180
attattttcca	taacttaaaa	agtgagtttg	aaaaagaaaa	tctccagcaa	gcattctcatt	240
taaataaagg	tttgtcatct	ttaaaaatac	agcaatatgt	gactttttta	aaaagctgtc	300
aaatagggtg	gaccctacta	ataattatta	gaaatacatt	taaaaacatc	gagtacctca	360
agtcagtttg	ccttgaaaaa	tatcaaatat	aactcttaga	gaaatgtaca	taaaagaatg	420
cttogtaatt	ttggagtang	aggtccctc	ctcaattttg	tattttttaa	aagtacatgg	480
taaaaaaaaa	aattcacaa	agtatataag	gctgtaaaat	gaagaattct	gcc	533

<210> 72

<211> 511

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(511)
 <223> n = A,T,C or G

<400> 72

tattacggaa	aaacacacca	cataattcaa	ctancaaaga	anactgcttc	agggcggtga	60
aaatgaaagg	cttccaggca	gttatctgat	taaagaacac	taaaagaggg	acaaggctaa	120
aagccgcagg	atgtctacac	tatancaggc	gctatttggg	ttggctggag	gagctgtgga	180
aaacatggan	agattgggtgc	tgganatcgc	cgtggctatt	cctcattgtt	attacanagt	240
gaggttctct	gtgtgcccac	tggtttgaaa	accgttctnc	aataatgata	gaatagtaca	300
cacatgagaa	ctgaaatggc	ccaaacccag	aaagaaagcc	caactagatc	ctcagaanac	360
gcttctaggg	acaataaccg	atgaagaaaa	gatggcctcc	ttgtgcccc	gtctgttatg	420
atttctctcc	attgcagcna	naaacccgtt	cttctaagca	aacncagggtg	atgatggcna	480
aaatacaccc	cctcttgaag	naccnggagg	a			511

<210> 73
 <211> 499
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(499)
 <223> n = A,T,C or G

<400> 73

cagtgccagc	actggtgcc	gtaccagtac	caataacagt	gccagtgcc	gtgccagcac	60
cagtgggtggc	ttcagtgtctg	gtgccagcct	gaccgccact	ctcacatttg	ggctcttcgc	120
tggccttgggt	ggagctgggtg	ccagcaccag	tggcagctct	gggtgcctgtg	gtttctccta	180
caagttagat	tttagatatt	gttaatcctg	ccagtctttc	tcttcaagcc	aggggtgcac	240
ctcagaaacc	tactcaacac	agcactctag	gcagccacta	tcaatcaatt	gaagttgaca	300
ctctgcatta	aattctatttg	ccattttctga	aaaaaaaaaa	aaaaaaagg	cggccgctcg	360
antctagagg	gcccgttttaa	acccgctgat	cagcctcgac	tgtgccttct	anttgccagc	420
catctgttgt	ttgccctcc	cccgntgcct	tccttgacct	tggaaagtgc	cactcccact	480
gtcctttcct	aantaaaat					499

<210> 74
 <211> 537
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(537)
 <223> n = A,T,C or G

<400> 74

tttcatagga	gaacacactg	aggagatact	tgaagaattt	ggattcagcc	gcgaagagat	60
ttatcagctt	aactcagata	aaatcattga	aagtaataag	gtaaaagcta	gtctctaact	120
tocaggccca	cggctcaagt	gaatttgaat	actgcattta	cagtgtagag	taacacataa	180
cattgtatgc	atggaaacat	ggaggaacag	tattacagtg	tcctaccact	ctaatcaaga	240
aaagaattac	agactctgat	tctacagtga	tgattgaatt	ctaaaaatgg	taatcattag	300
ggcttttgat	ttataanact	ttgggtactt	atactaaatt	atggtagtta	tactgccttc	360

```
<210> 75
<211> 467
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(467)
<223> n = A,T,C or G
```

```
<210> 76
<211> 400
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(400)
<223> n = A,T,C or G
```

```
<210> 77
<211> 248
<212> DNA
<213> Homo sapien
```

<400> 77						
ctggagtgc	ttggtgttc	aagccctgc	aggaagcaga	atgcaccttc	tgaggcacct	60
ccagctgcc	cggcgggga	tgcgaggtc	ggagcaccct	tgcccggtg	tgattgctgc	120
caggcactgt	tcattcaagc	ttttctgtcc	ctttgtctcc	ggcaagcgt	totgtgaaa	180
gttcatatct	ggagcctgat	gtcttaacga	ataaaggctc	catgctccac	ccgaaaaaaa	240
aaaaaaaa						248

<210> 78
 <211> 201
 <212> DNA
 <213> Homo sapien

<400> 78
 actagtccag tgtggtggaa ttccattgtg ttggggcccaa cacaatggct acctttaaca 60
 tcaccagac cccgccctgc ccgtagccca cgtgtgtgt aacgacagta tgatgcttac 120
 tctgctactc ggaaactatt tttatgtaat taatgtatgc tttcttggtt ataaatgcct 180
 gatttaaaaa aaaaaaaaaa a 201

<210> 79
 <211> 552
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(552)
 <223> n = A,T,C or G

<400> 79
 tccttttggt aggtttttga gacaacccta gacctaaact gtgtcacaga cttctgaatg 60
 tttaggcagt gctagtaatt tcctcgtaat gattctgtta ttactttcct attctttatt 120
 cctctttcct ctgaagatta atgaagttga aaattgaggt ggataaatac aaaaaggtag 180
 tgtgatagta taagtatcta agtgcagatg aaagtgtgtt atatatatcc attcaaaatt 240
 atgcaagtta gtaattactc agggttaact aaattacttt aatatgctgt tgaacctact 300
 ctgttccttg gctagaaaaa attataaaca ggactttggt agtttgggaa gccaaattga 360
 taatattcta tgttctaaaa gttgggctat acataaanta tnaagaaata tggattttta 420
 ttcccaggaa tatgggggtt atttatgaat antaccggg anagaagttt tgantnaaac 480
 cngttttggt taatacgtta atatgtcctn aatnaacaag gcntgactta tttccaaaaa 540
 aaaaaaaaaa aa 552

<210> 80
 <211> 476
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(476)
 <223> n = A,T,C or G

<400> 80
 acagggattt gagatgctaa ggccccagag atcgtttgat ccaaccctct tattttcaga 60
 ggggaaaatg gggcctagaa gttacagagc atctagctgg tgcgctggca cccctggcct 120
 cacacagact cccagtagtc tgggactaca ggcacacagt cactgaagca ggccctgttt 180
 gcaattcagc ttgccacctc caacttaaac attcttcata tgtgatgtcc ttagtcacta 240
 aggttaaaact ttcccaccca gaaaaggcaa cttagataaa atcttagagt actttcatac 300
 tcttctaagt cctcttcag cctcactttg agtcctcctt gggggttgat aggaantntc 360
 tcttggttt ctcaataaaa tctctatcca tctcatgttt aatttggtac gcntaaaaat 420
 gctgaaaaaa ttaaaatgtt ctggtttcnc tttaaaaaaa aaaaaaaaaa aaaaaa 476

```
<220>  
<221> misc_feature  
<222> (1)...(232)  
<223> n = A,T,C or G
```

```
<210> 82
<211> 383
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G
```

```
<210> 83
<211> 494
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(494)  
<223> n = A,T,C or G
```

<400> 83					
accgaattgg	gaccgctggc	ttataagcga	tcatgtcctc	cagtattacc	tcaacgagca 60
gggagatcga	gtctatacgc	tgaagaaatt	tgacccgatg	ggacaacaga	cctgctcagc 120
ccatcctgct	cgtttctccc	cagatgacaa	atactctcga	caccgaatca	ccatcaagaa 180
acgcttcaag	gtgctcatga	cccagcaacc	gcgccctgtc	ctctgagggt	ccttaaactg 240
atgtcttttc	tgccacctgt	taccctctgg	agactccgta	accaaactct	tcggaactgtg 300
agccctgatg	cctttttgcc	agccatactc	tttggcntcc	agtctctcgt	ggcgattgat 360
tatgcttgty	tgaggcaatc	atggtggcat	cacccatnaa	gggaacacat	ttganttttt 420
tttcncatat	tttaaattac	naccaqaata	nttcagaata	aatgaattga	aaaactctta 480

aaaaaaaaaa aaaa

494

<210> 84
 <211> 380
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(380)
 <223> n = A,T,C or G

<400> 84
 gctggtagcc tatggcgtgg ccacggangg gctcctgagg cacgggacag tgacttccca 60
 agtatcctgc gccgcgtctt ctaccgtccc tacctgcaga tcttcgggca gattccccag 120
 gaggacatgg acgtggccct catggagcac agcaactgct cgtcggagcc cggcttctgg 180
 gcacaccctc ctggggccca ggcgggcacc tgcgtctccc agtatgccaa ctggctgggtg 240
 gtgctgctcc tcgtcatctt cctgctcgtg gccaacatcc tgctggtcac ttgctcattg 300
 ccatgttcag ttacacattc ggcaaagtac agggcaacag cnatctctac tgggaaggcc 360
 agcgttnccg cctcatccgg 380

<210> 85
 <211> 481
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(481)
 <223> n = A,T,C or G

<400> 85
 gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggccctctcg tcataaccgc 60
 tnccatcgtc atactgtagg ttggccacca cctcctgcac cttggggcgg ctaatatcca 120
 ggaaactctc aatcaagtca ccgtcnatna aacctgtggc tggttctgtc ttccgctcgg 180
 tgtgaaagga tctccagaag gagtgctcga tcttccccac acttttgatg actttattga 240
 gtgattctg catgtccagc aggaggttgt accagctctc tgacagtgag gtcaccagcc 300
 ctatcatgcc nttgaacgtg ccgaagaaca ccgagccttg tgtggggggg gnagtctcac 360
 ccagattctg cattaccaga nagccgtggc aaaaganatt gacaactcgc ccaggngaa 420
 aaagaacacc tcctggaagt gctngccgct cctcgtcctt tgggtggngc gcntnccttt 480
 t 481

<210> 86
 <211> 472
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(472)
 <223> n = A,T,C or G

<400> 86
 aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgctg agaattcatt 60

```

acttggaataa gcaacttnaa gcctggacac tggattataa attcacaata tgcaacactt 120
taaacagtgt gtcaatctgc tcccttactt tgtcatcacc agtctgggaa taagggtatg 180
ccctattcac acctgttaaa agggcgctaa gcatttttga ttcaacatct ttttttttga 240
cacaagtccg aaaaaagcaa aagtaaagag ttnttaattt gttagccaat tcactttctt 300
catgggacag agccatttga tttaaaaagc aaattgcata atattgagct ttgggagctg 360
atatntgagc ggaagantag cctttctact tcaccagaca caactccttt catattggga 420
tgtnacnaa agttatgtct cttacagatg ggatgctttt gtggcaattc tg 472

```

```

<210> 87
<211> 413
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(413)
<223> n = A,T,C or G

```

```

<400> 87
agaaaccagt atctctnaaa acaacctctc ataccttgtg gacctaatTT tgtgtgcgtg 60
tgtgtgtgcg cgcataattat atagacaggc acatcttttt tacttttgta aaagcttatg 120
cctcttttgg atctatatct gtgaaagttt taatgatctg ccataatgtc ttggggacct 180
ttgtcttctg tgtaaattgg actagagaaa acacctatnt tatgagtcaa tctagttingt 240
tttattcgac atgaaggaaa tttccagatn acaacactna caaactctcc cttgactagg 300
ggggacaaag aaaagcanaa ctgaacatna gaaacaattn cctggtgaga aattncataa 360
acagaaattg ggtngtatat tgaaanann catcattnaa acgttttttt ttt 413

```

```

<210> 88
<211> 448
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(448)
<223> n = A,T,C or G

```

```

<400> 88
cgcagcgggt cctctctatc tagctccagc ctctcgectg cccactccc cgcgccccgc 60
gtcctagccn accatggccg ggcccctgcg cgccccgctg ctccctgctg ccacccctggc 120
cgtggccctg gccgtgagcc ccgcggcccg ctccagtcce ggcaagccgc cgcgcctggt 180
gggaggccca tggaccccg cgtggaagaag aaggtgtgcg gcggtgactg gactttgccg 240
tcggcnanta caacaaaccc gcaacnactt ttaccnagcn cgcgctgcag gttgtgccgc 300
cccaancaaa ttgttactng gggtaanata ttcttggaag ttgaacctgg gccaaacnng 360
tttaccagaa ccnagccaat tngaacaatt ncccctccat aacagcccct tttaaaaagg 420
gaancantcc tgntcttttc caaatTTT 448

```

```

<210> 89
<211> 463
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature

```

<222> (1)...(463)

<223> n = A,T,C or G

<400> 89

gaattttgtg	cactggccac	tgtgatggaa	ccattgggcc	aggatgcttt	gagtttatca	60
gtagtgattc	tgccaaagtt	gggtgttgtaa	catgagtatg	taaaatgtca	aaaaattagc	120
agaggcttag	gtctgcatat	cagcagacag	tttgtccgtg	tattttgtag	ccttgaagtt	180
ctcagtgaca	agttinntct	gatgcgaagt	tctnattcca	gtgttttagt	cctttgcata	240
tttnatgttn	agacttgcc	ctntnaaatt	gcttttgtnt	tctgcaggta	ctatctgtgg	300
tttaacaaaa	tagaannact	tctctgcttn	gaanatttga	atatcttaca	tctnaaaatn	360
aattctctcc	ccatannaaa	acccangccc	ttggganaat	ttgaaaaang	gntccttcnn	420
aattcnnana	anttcagntn	tcatacaaca	naacngganc	ccc		463

<210> 90

<211> 400

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(400)

<223> n = A,T,C or G

<400> 90

agggattgaa	ggctctntnt	actgtcggac	tgttcancca	ccaactctac	aagttgctgt	60
cttccactca	ctgtctgtaa	gcntnttaac	ccagactgta	tcttcataaa	tagaacaaat	120
tcttcaccag	tcacatcttc	taggaccttt	ttggattcag	ttagtataag	ctcttcact	180
tcctttgtta	agacttcata	tggtaaagtc	ttaagttttg	tagaaaggaa	tttaattgct	240
cgttctctaa	caatgtcctc	tccttgaagt	atttggttga	acaaccacc	tnaagtcctt	300
ttgtgcatcc	attttaaata	tacttaatag	ggcatttggt	cactagggtta	aattctgcaa	360
gagtcactctg	tctgcaaaa	ttgcgttagt	atatctgcc			400

<210> 91

<211> 480

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(480)

<223> n = A,T,C or G

<400> 91

gagctcggat	ccaataatct	ttgtctgagg	gcagcacaca	tatncagtgc	catggnaact	60
gggtotacccc	acatgggagc	agcatgccgt	agntatataa	ggtcattccc	tgagtcagac	120
atgcctcttt	gactaccgtg	tgccagtgtc	gggtgattctc	acacacctcc	nnccgctctt	180
tgtggaaaaa	ctggcacttg	nctggaacta	gcaagacata	acttacaaat	tcaccacga	240
gacacttgaa	aggtgtaaca	aagcgactct	tgcatgtgctt	tttgtccctc	cggcaccagt	300
tgtcaatact	aaccgctgg	tttgccctcca	tcacatttgt	gatctgtagc	tctggataca	360
tctcctgaca	gtactgaaga	acttcttctt	ttgtttcaaa	agcaactctt	ggtgcctgtt	420
ngatcagggt	cccatctccc	agtcggaatg	ttcacatggc	atatnttact	tcccacaaaa	480

<210> 92

<211> 477

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(477)
 <223> n = A,T,C or G

<400> 92
 atacagccca natccaccca cgaagatgcg cttgttgact gagaacctga tgcggtcact 60
 ggtcccgtg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcctt 120
 cccacgcagg cagcagcggg gccgggtcaat gaactccact cgtggcttgg gggtgacggg 180
 taantgcagg aagaggctga ccacctcgcg gtccaccagg atgcccgact gtgcgggacc 240
 tgcagcgaaa ctctctgatg gtcattgagcg ggaagcgaat gangcccagg gccttgccca 300
 gaaccttcg cctgttctct ggcgtcacct gcagctgctg ccgctnacac tcggcctcgg 360
 accagcggac aaacggcggt gaacagcgc acctcacgga tgcccantgt gtcgcgctcc 420
 aggaacggcn ccagcgtgtc cagggtcaatg tcggtgaanc ctccgcgggt aatggcg 477

<210> 93
 <211> 377
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(377)
 <223> n = A,T,C or G

<400> 93
 gaacggctgg acctgacct gcattgtgct gctggcagga ataccttggc aagcagctcc 60
 agtccgagca gcccagacc gctgcccggc gaagctaagc ctgcctctgg ccttcccctc 120
 cgcctcaatg cagaaccant agtgggagca ctgtgtttag agttaagagt gaacactgtn 180
 tgattttact tgggaatttc ctctgttata tagcttttcc caatgctaata ttccaaacaa 240
 caacaacaaa ataacatgtt tgctgttna gttgtataaa agtangtgat tctgtatnta 300
 aagaaaatat tactgttaca tatactgctt gcaantttctg tattttattg tnctctggaa 360
 ataaatatat tatataa 377

<210> 94
 <211> 495
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(495)
 <223> n = A,T,C or G

<400> 94
 ccctttgagg ggtaggggc cagttcccg tggaagaaac aggccaggag aantgcgtgc 60
 cgagctgang cagatttccc acagtgacct cagagccctg ggctatagtc tctgacctct 120
 ccaaggaaag accaccttct ggggacatgg gctggagggc aggacctaga ggcaccaagg 180
 gaaggcccca ttccggggct gttccccgag gaggaaggga aggggctctg tgtgcccccc 240
 acgaggaana ggccctgant cctgggatca nacaccctt cacgtgtatc cccacacaaa 300
 tgcaagctca ccaaggtccc ctctcagtc cttccctaca ccctgaacgg nactggccc 360


```
<210> 95
<211> 472
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(472)
<223> n = A,T,C or G
```

```
<210> 96
<211> 476
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(476)
<223> n = A,T,C or G
```

```
<210> 97
<211> 479
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(479)
<223> n = A,T,C or G
```

actcttttcta	atgctgatat	gattcttgagt	ataagaatgc	atatgtcact	agaatggata	60
aaataatgct	gcaaacttaa	tgttctttag	caaaatggaa	cgctaataaa	acacagctta	120
caatcgcaaa	tcaaaactca	caagtgtctc	tctgtgttag	atttagtgta	ataagaactta	180
gattgtgctc	cttcggatat	gattgtttct	canatcttgg	gcaatnttcc	ttagtcaaata	240
caggctcata	gaattctggt	attggatatn	tgagagcatg	aaatttttaa	naatacactt	300
gtgat tatna	aattaatcac	aaatttcact	tatacctgct	atcagcagct	agaaaaacat	360
ntnnttttta	natcaaagta	ttttgtgttt	ggaantgtnn	aaatgaaatc	tgaatgtggg	420
ttcnatctta	ttttttcccn	gacnactant	tnctttttta	gggnctattc	tganccatc	479

<213> Homo sapien

<400> 98					60
agtgacttgt	cctccaacaa	aaccacctga	tcaagtttgt	ggcactgaca	atcagaccta
tgctagtcc	tgctcatctat	tcgctactaa	atgcagactg	gaggggacca	aaaaggggca
tcaactccag	ctggattatt	ttggagcctg	caaatctatt	cctacttgta	cggactttga
agtgattcag	tttctctctac	ggatgagaga	ctggctcaag	aatatcctca	tgcagcttta
tgaagccact	ctgaacacgc	tgggttctcta	gatgagaaca	gagaaataaa	gtcagaaaat
ttacctggag	aaaagaggct	ttggctgggg	accatcccat	tgaaccttct	cttaagggact
ttaagaaaaa	ctaccacatg	ttgtgtatcc	tggtgccggc	cgtttatgaa	ctgaccaccc
tttqgaataa	tcttgacgct	cctgaacttg	ctcctctgcg	a	
					461

<213> Homo sapien

```

gtggccgcgc gcaggtgttt cctcgtaccg cagggccccc tcccttcccc aggcgtccct    60
cggcgctctt gcgggcccga ggaggagcgg ctggcgggtg gggggagtgt gaccacacct    120
cggtgagaaa agccttctct agcgatctga gaggcgtgcc ttgggggtac c          171

```

<213> Homo sapien

[illegible]

<213> Homo sapien

tttttttttt ttttqgaatc tactgcgagc acagcaggtc agcaacaagt ttatttttgc 60

gctagcaagg	taacagggta	gggcatgggt	acatgttcag	gtcaaacttc	tttgtcgtgg	120
ttgattgggt	tgtctttatg	ggggcggggt	ggggtagggg	aaacgaagca	aataacatgg	180
agtgggtgca	ccctccctgt	agaacctggg	tacaaagctt	ggggcagttc	acctgggtctg	240
tgaccgtcat	tttcttgaca	tcaatgttat	tagaagtcag	gatatctttt	agagagtcca	300
ctgttctgga	gggagattag	ggtttcttgc	caaatccaac	aaaatccact	gaaaaagttg	360
gatgatcagt	acgaataccg	aggcatattc	tcatatcggg	ggcca		405

<210> 102
 <211> 470
 <212> DNA
 <213> Homo sapien

<400> 102						
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
ggcacttaat	ccatttttat	ttcaaaatgt	ctacaaattt	aatcccat	tacgggtattt	120
tcaaaatcta	aattattcaa	attagccaaa	tccttaccaa	ataataccca	aaaatcaaaa	180
atatacttct	ttcagcaaac	ttgttacata	aattaaaaaa	atatatacgg	ctgggtgtttt	240
caaagtacaa	ttatcttaac	actgcaaaaca	ttttaaggaa	ctaaaataaa	aaaaaacact	300
ccgcaaaggt	taaaggggaa	aacaaattct	tttacaacac	cattataaaa	atcatatctc	360
aaatcttagg	ggaatatata	cttcacacgg	gatcttaact	tttactcact	ttgtttattt	420
ttttaaacca	ttgtttgggc	ccaacacaa	ggaatcccc	ctggactagt		470

<210> 103
 <211> 581
 <212> DNA
 <213> Homo sapien

<400> 103						
tttttttttt	ttttttttga	ccccctott	ataaaaaaca	agttaccatt	ttatttttact	60
tacacatatt	tattttataa	ttggtattag	atattcaaaa	ggcagctttt	aaaatcaaac	120
taaatggaaa	ctgccttaga	tacataattc	ttaggaatta	gcttaaaatc	tgctaaagt	180
gaaaatcttc	tctagctctt	ttgactgtaa	atttttgact	cttgtaaaac	atccaaattc	240
atttttcttg	tctttaaaaa	tatctaattc	ttccattttt	tccctattcc	aagtcaattt	300
gcttctctag	cctcatttcc	tagctcttat	ctactattag	taagtggcct	ttttcctaaa	360
agggaaaaca	ggaagagaaa	tggcacacaa	aacaaacatt	ttatattcat	atttctacct	420
acgttaataa	aatagcattt	tgtgaagcca	gtcaaaaaga	aggcttagat	ccttttatgt	480
ccattttagt	cactaaacga	tatcaaagtg	ccagaatgca	aaaggtttgt	gaacatttat	540
tcaaaagcta	atataagata	tttcacatac	tcatctttct	g		581

<210> 104
 <211> 578
 <212> DNA
 <213> Homo sapien

<400> 104						
tttttttttt	tttttttttt	tttttctott	cttttttttt	gaaatgagga	tcgagttttt	60
cactctctag	atagggcatg	aagaaaactc	atctttccag	ctttaaaata	acaatcaaat	120
ctcttatgct	atatcatatt	ttaagttaaa	ctaagtagtc	actggcttat	cttctcctga	180
aggaaatctg	ttcattcttc	tcattcatat	agttatatca	agtactacct	tgcatattga	240
gagggttttc	ttctctat	acacatatat	ttccatgtga	atttgtatca	aacctttatt	300
ttcatgcaaa	ctagaaaata	atgtttcttt	tgcataagag	aagagaacaa	tatagcatta	360
caaaactgct	caaattgttt	gttaagttat	ccattataat	tagttggcag	gagctaatac	420
aaatcacatt	tacgacagca	ataataaaac	tgaagtacca	gttaaatatc	caaaataatt	480
aaaggaacat	ttttagcctg	ggtataatta	gctaattcac	tttacaagca	tttattagaa	540

tgaattcaca tggttattatt cctagcccaa cacaaatgg

578

<210> 105

<211> 538

<212> DNA

<213> Homo sapien

<400> 105

tttttttttt	tttttcagta	ataatcagaa	caatatttat	ttttatattt	aaaattcata	60
gaaaagtgcc	ttacatttaa	taaaagtttg	tttctcaaag	tgatcagagg	aattagatat	120
gtcttgaaca	ccaatattaa	tttgaggaaa	atacaccaaa	atacattaag	taaattattt	180
aagatcatag	agcttgtaag	tgaaaagata	aaatttgacc	tcagaaactc	tgagcattaa	240
aaatccacta	ttagcaaata	aattactatg	gacttcttgc	tttaattttg	tgatgaatat	300
ggggtgtcac	tggtaaacca	acacattctg	aaggatacat	tacttagtga	tagattctta	360
tgtactttgc	taatacgtgg	atatgagttg	acaagtttct	ctttcttcaa	tcttttaagg	420
ggcgagaaat	gaggaagaaa	agaaaaggat	tacgcatact	gttctttcta	tggaaggatt	480
agatatgttt	cctttgccaa	tattaaaaaa	ataataatgt	ttactactag	tgaaaccc	538

<210> 106

<211> 473

<212> DNA

<213> Homo sapien

<400> 106

tttttttttt	tttttttagtc	aagtttctat	ttttattata	attaaagtct	tggtcatttc	60
atattattagc	tctgcaactt	acatatttaa	attaaagaaa	cgtttttagac	aactgtacaa	120
tttataaatg	taaggtgcca	ttattgagta	atatattcct	ccaagagtgg	atgtgtccct	180
tctcccacca	actaatgaac	agcaacatta	gtttaatttt	attagtagat	atacactgct	240
gcaaacgcta	attctcttct	ccatccccc	gtgatattgt	gtatatgtgt	gagttggtag	300
aatgcatcac	aatctacaat	caacagcaag	atgaagctag	gctgggcttt	cggtgaaaat	360
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<210> 107

<211> 1621

<212> DNA

<213> Homo sapien

<400> 107

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gttctacgag	ctgctgatca	aaggacttgg	actaaagtct	gatgaacttc	ccaatcagat	780
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<211> 1524
<212> DNA
<213> Homo sapien
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<211> 3410
<212> DNA
<213> Homo sapien
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 $\langle 400 \rangle$ 110

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<210> 111
 <211> 1289
 <212> DNA
 <213> Homo sapien

<400> 111

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<210> 112
 <211> 315
 <212> PRT
 <213> Homo sapien

<400> 112

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 1 5 10 15
 Leu Gly Pro Lys Ile Val Ile Val Ser Lys Met Met Lys Asp Val Phe
 20 25 30
 Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr Gly Val Ala
 35 40 45
 Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro Ser Ile Leu
 50 55 60
 Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly Gln Ile Pro
 65 70 75 80
 Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn Cys Ser Ser
 85 90 95
 Glu Pro Gly Phe Trp Ala His Pro Pro Gly Ala Gln Ala Gly Thr Cys
 100 105 110
 Val Ser Gln Tyr Ala Asn Trp Leu Val Val Leu Leu Leu Val Ile Phe

115 120 125
 Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu Ile Ala Met Phe
 130 135 140
 Ser Tyr Thr Phe Gly Lys Val Gln Gly Asn Ser Asp Leu Tyr Trp Lys
 145 150 155 160
 Ala Gln Arg Tyr Arg Leu Ile Arg Glu Phe His Ser Arg Pro Ala Leu
 165 170 175
 Ala Pro Pro Phe Ile Val Ile Ser His Leu Arg Leu Leu Leu Arg Gln
 180 185 190
 Leu Cys Arg Arg Pro Arg Ser Pro Gln Pro Ser Ser Pro Ala Leu Glu
 195 200 205
 His Phe Arg Val Tyr Leu Ser Lys Glu Ala Glu Arg Lys Leu Leu Thr
 210 215 220
 Trp Glu Ser Val His Lys Glu Asn Phe Leu Leu Ala Arg Ala Arg Asp
 225 230 235 240
 Lys Arg Glu Ser Asp Ser Glu Arg Leu Lys Arg Thr Ser Gln Lys Val
 245 250 255
 Asp Leu Ala Leu Lys Gln Leu Gly His Ile Arg Glu Tyr Glu Gln Arg
 260 265 270
 Leu Lys Val Leu Glu Arg Glu Val Gln Gln Cys Ser Arg Val Leu Gly
 275 280 285
 Trp Val Ala Glu Ala Leu Ser Arg Ser Ala Leu Leu Pro Pro Gly Gly
 290 295 300
 Pro Pro Pro Pro Asp Leu Pro Gly Ser Lys Asp
 305 310 315

<210> 113
 <211> 553
 <212> PRT
 <213> Homo sapien

<400> 113
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 20 25 30
 Ala Ala Gly Ile Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val
 35 40 45
 Glu Glu Lys Phe Met Thr Met Val Leu Gly Ile Gly Pro Val Leu Gly
 50 55 60
 Leu Val Cys Val Pro Leu Leu Gly Ser Ala Ser Asp His Trp Arg Gly
 65 70 75 80
 Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp Ala Leu Ser Leu Gly Ile
 85 90 95
 Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala Gly Trp Leu Ala Gly Leu
 100 105 110
 Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu Ala Leu Leu Ile Leu Gly
 115 120 125
 Val Gly Leu Leu Asp Phe Cys Gly Gln Val Cys Phe Thr Pro Leu Glu
 130 135 140
 Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg Gln Ala
 145 150 155 160
 Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu Gly Gly Cys Leu Gly Tyr
 165 170 175

Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu
 180 185 190
 Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu Leu Thr Leu Ile Phe Leu
 195 200 205
 Thr Cys Val Ala Ala Thr Leu Leu Val Ala Glu Glu Ala Ala Leu Gly
 210 215 220
 Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala Pro Ser Leu Ser Pro His
 225 230 235 240
 Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe Arg Asn Leu Gly Ala Leu
 245 250 255
 Leu Pro Arg Leu His Gln Leu Cys Cys Arg Met Pro Arg Thr Leu Arg
 260 265 270
 Arg Leu Phe Val Ala Glu Leu Cys Ser Trp Met Ala Leu Met Thr Phe
 275 280 285
 Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu Gly Leu Tyr Gln Gly Val
 290 295 300
 Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly
 305 310 315 320
 Val Arg Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu
 325 330 335
 Val Phe Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg
 340 345 350
 Ala Val Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala
 355 360 365
 Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu
 370 375 380
 Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala
 385 390 395 400
 Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly
 405 410 415
 Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser Leu Met Thr Ser Phe Leu
 420 425 430
 Pro Gly Pro Lys Pro Gly Ala Pro Phe Pro Asn Gly His Val Gly Ala
 435 440 445
 Gly Gly Ser Gly Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser
 450 455 460
 Ala Cys Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala
 465 470 475 480
 Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp
 485 490 495
 Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met Gly Ser
 500 505 510
 Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met Val Ser Ala Ala
 515 520 525
 Gly Leu Gly Leu Val Ala Ile Tyr Phe Ala Thr Gln Val Val Phe Asp
 530 535 540
 Lys Ser Asp Leu Ala Lys Tyr Ser Ala
 545 550

<210> 114

<211> 241

<212> PRT

<213> Homo sapien

<221> misc_feature
 <222> (1)...(282)
 <223> n = A,T,C or G

<400> 116
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 gagaaatgag atnaaacaca atnttataaa gtctacttag agaagatcaa gtgacctcaa 120
 agactttact attttcatat ttttaagacac atgatttatc ctatttttagt aacctgggtc 180
 atacgttaaa caaaggataa tgtgaacagc agagaggatt tgttggcaga aaatctatgt 240
 tcaatctnga actatctana tcacagacat ttctattcct tt 282

<210> 117
 <211> 305
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(305)
 <223> n = A,T,C or G

<400> 117
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 tattttatcct ccctcctgaa acaattgcaa aataanacaa aatatatgaa acaattgcaa 120
 aataaggcaa aatatatgaa acaacagggtc tcgagatatt ggaaatcagt caatgaagga 180
 tactgatccc tgatcactgt cctaattgcag gatgtgggaa acagatgagg tcacctctgt 240
 gactgcccc gcttactgcc tgtagagagt ttctangctg cagttcagac agggagaaat 300
 tgggt 305

<210> 118
 <211> 71
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(71)
 <223> n = A,T,C or G

<400> 118
 accaaggtgt ntgaatctct gacgtgggga tctctgattc ccgcacaatc tgagtggaaa 60
 aantcctggg t 71

<210> 119
 <211> 212
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(212)
 <223> n = A,T,C or G

<400> 119

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gaaaatgggg tgaaattggc caactttcta tnaacttatg ttggcaantt tgccaccaac      120
agtaagctgg cccttctaataaaaagaaaat tgaaagggtt ctcactaanc ggaattaant      180
aatggantca aganactccc aggcctcagc gt                                     212

```

```

<210> 120
<211> 90
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1)...(90)
<223> n = A,T,C or G

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```

<400> 120
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ctccgcgggc gcagaacatg ctgggggtggt                                     90

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```

<210> 121
<211> 218
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(218)
<223> n = A,T,C or G

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<400> 121
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gaataagatt tgctaaaaga tttggggcta aaacatggtt attgggagac atttctgaag      120
atatncangt aaattangga atgaattcat ggttcttttg ggaattcctt tacgatngcc      180
agcatanact tcatgtgggg atancagcta cccttgta                               218

```

```

<210> 122
<211> 171
<212> DNA
<213> Homo sapien

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```

<400> 122
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catttgtagt ctcatggaac aggaagtcgg atgggtgggc atcttcagtg ctgcatgagt      120
caccaccccg gcgggggtcat ctgtgccaca ggtccctggt gacagtgcgg t             171

```

```

<210> 123
<211> 76
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(76)
<223> n = A,T,C or G

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<400> 123
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 ttatcaanta ttgtgt 76

<210> 124
 <211> 131
 <212> DNA
 <213> Homo sapien

<400> 124
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 ttaagatttg t 131

<210> 125
 <211> 432
 <212> DNA
 <213> Homo sapien

<400> 125
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 ctacagtctg catttggcag aaatgaagat gaatttggat taaatgagga tgctgaagat 180
 ttgcctcacc aaacaaaagt gaaacaactg agagaaaatt ttcaggaaaa aagacagtgg 240
 ctcttgaagt atcagtcact tttgagaatg tttcttagtt actgcatact tcatggatcc 300
 catggtgggg gtcttgcac tgtaagaatg gaattgattt tgcttttgca agaattctcag 360
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 ctctttgctt gt 432

<210> 126
 <211> 112
 <212> DNA
 <213> Homo sapien

<400> 126
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 agtaagaatg atatttcccc ccagggatca ccaaataattt ataaaaattt gt 112

<210> 127
 <211> 54
 <212> DNA
 <213> Homo sapien

<400> 127
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<210> 128
 <211> 323
 <212> DNA
 <213> Homo sapien

<400> 128
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<210> 135
 <211> 350
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(350)
 <223> n = A,T,C or G

<400> 135
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 aaacttgata cttttgttct aagtaggaac tagtatacag tncctaggan tggtaactcca 180
 ggggtgcccc caactcctgc agccgtcct ctgtgccagn ccctgnaagg aactttcgct 240
 ccacctcaat caagccctgg gccatgtac ctgcaattgg ctgaacaaac gtttgctgag 300
 ttcccaagga tgcaaagcct ggtgctcaac tcctggggcg tcaactcagt 350

<210> 136
 <211> 399
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(399)
 <223> n = A,T,C or G

<400> 136
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 gcagacttgt gtctgccttc aanaagccag acaggaaggc cctgcctgcc ttggctctga 180
 cctggcggcc agccagccag ccacaggtgg gcttcttct tttgtgtgta caacnccaag 240
 aaaactgcag aggcccaggg tcaggtgtna gtgggtangt gaccataaaa caccaggtgc 300
 tccaggaac ccgggcaaag gccatcccca cctacagcca gcatgcccac tggcgtgatg 360
 ggtgcagang gatgaagcag ccagntgttc tgctgtggt 399

<210> 137
 <211> 165
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(165)
 <223> n = A,T,C or G

<400> 137
 actggtgtgg tnggggggtga tgctggtggt anaagttgan gtgacttcan gatggtgtgt 60
 ggaggaagtgt tgtgaacgta gggatgtaga ngttttggcc gtgctaaatg agcttcggga 120
 ttggctgggtc ccactggtgg tcaactgtcat tggtgggggt cctgt 165

<210> 138

<211> 338
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(338)
 <223> n = A,T,C or G

<400> 138
 actcactgga atgccacatt cacaacagaa tcagaggtct gtgaaaacat taatggctcc 60
 ttaacttctc cagtaagaat cagggacttg aaatggaaac gttaacagcc acatgcccaa 120
 tgctgggcag tctcccatgc cttccacagt gaaagggctt gagaaaaatc acatccaatg 180
 tcatgtgttt ccagccacac caaaaggtgc ttgggggtgga gggctggggg catananggt 240
 cangcctcag gaagcctcaa gttccattca gctttgccac tgtacattcc ccatntttaa 300
 aaaaactgat gccttttttt tttttttttg taaaattc 338

<210> 139
 <211> 382
 <212> DNA
 <213> Homo sapien

<400> 139
 gggaatcttg gtttttggca tctggtttgc ctatagccga ggccactttg acagaacaaa 60
 gaaagggact tcgagtaaga aggtgattta cagccagcct agtgcccga gagaaggaga 120
 attcaaacag acctcgtcat tcctgggtgtg agcctggctg gctcaccgcc tatcatctgc 180
 atttgcccta ctcaggtgct accggaactct ggcccctgat gtctgtagtt tcacaggatg 240
 ccttatttgt cttctacacc ccacagggcc ccttacttct tcggatgtgt ttttaataat 300
 gtcagctatg tgcccacatc tccttcatgc cctccctccc tttcctacca ctgctgagtg 360
 gcctggaact tgtttaaagt gt 382

<210> 140
 <211> 200
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(200)
 <223> n = A,T,C or G

<400> 140
 accaaanctt ctttctgttg tgttngattt tactataggg gtttngcttn ttctaaanat 60
 acttttcatt taacancttt tgttaagtgt caggctgcac tttgctccat anaattattg 120
 ttttcacatt tcaacttgta tgtgtttgtc tcttanagca ttggtgaaat cacatatttt 180
 atattcagca taaaggagaa 200

<210> 141
 <211> 335
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<222> (1)...(335)

<223> n = A,T,C or G

<400> 141

actttat	tttt	caaaac	actc	atatgt	tgc	aaaa	acac	at	agaaaa	aata	agttt	ggtg	60
gggtg	ctg	ac	taaa	ctt	caa	gtc	ac	ag	att	gg	ag	gggtt	120
atg	cat	g	tag	aga	ac	cc	aaa	cta	att	tatt	aa	ac	180
aat	ggt	ct	g	aga	ac	cat	cc	aatt	ca	ctg	tc	ag	240
tttt	ct	acc	ag	tt	ca	gaga	tng	gt	ta	atg	act	ant	300
att	ca	aa	ac	ca	ag	ta	att	t	aa	ca	a	ac	335

<210> 142

<211> 459

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(459)

<223> n = A,T,C or G

<400> 142

acc	aggt	taa	tatt	gcc	aca	tata	tc	ct	ttt	cca	att	gc	g	60
ggg	tt	gt	tt	ta	aag	aca	ac	cc	ag	ct	ta	aat	at	120
ct	gat	gg	aga	aa	ac	act	gag	tt	tt	g	ac	aaa	t	180
ca	cat	gg	tc	aa	ca	ac	act	aa	ata	ata	taa	ta	na	240
tt	caa	ac	at	c	at	ag	cca	at	g	at	g	ccc	gc	300
t	caa	ac	ct	c	ag	t	gcc	at	at	gc	ct	ta	at	360
ag	ct	acc	agt	gg	cc	acc	aa	ac	cat	tca	gc	ac	g	420
cag	c	ang	gg	g	ag	a	ac	c	ct	g	cc	g	t	459

<210> 143

<211> 140

<212> DNA

<213> Homo sapien

<400> 143

aca	ttt	cc	ct	cc	aa	ag	tc	agg	act	cc	tg	g	g	60
aa	at	cc	aa	ac	ag	t	ct	cc	ag	aa	ag	ga	at	120
acc	at	cc	g	ac	gc	ac	gc	ac	cc	cc	cc	cc	ac	140

<210> 144

<211> 164

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(164)

<223> n = A,T,C or G

<400> 144

act	tc	ag	ta	aa	ca	ta	ca	aa	ca	tt	aag	tg	ta	60
at	ct	ta	ta	ca	cc	ct	tc	tg	aa	aa	ca	aa	at	120

aggcaattaa tccatatttg ttttcaataa ggaaaaaaag atgt

164

<210> 145
 <211> 303
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(303)
 <223> n = A,T,C or G

<400> 145

acgtagacca	tccaactttg	tatttgtaat	ggcaaacatc	cagnagcaat	tcctaaacaa	60
actggagggt	atattataccc	aattatccca	ttcattaaca	tgccctcctc	ctcaggctat	120
gcaggacagc	tatcataagt	cggcccaggc	atccagatac	taccatttgt	ataaacttca	180
gtaggggagt	ccatccaagt	gacaggtcta	atcaaaggag	gaaatggaac	ataagcccag	240
tagtaaaatn	ttgcttagct	gaaacagcca	caaaagactt	accgccgtgg	tgattaccat	300
caa						303

<210> 146
 <211> 327
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(327)
 <223> n = A,T,C or G

<400> 146

actgcagctc	aattagaagt	ggtctctgac	tttcatcanc	ttctccctgg	gctccatgac	60
actggcctgg	agtgactcat	tgctctgggt	ggttgagaga	gctcctttgc	caacaggcct	120
ccaagtcagg	gctgggattt	gtttcctttc	cacattctag	caacaatatg	ctggccactt	180
cctgaacagg	gaggggtgga	ggagccagca	tggaacaagc	tgccactttc	taaagtagcc	240
agacttgccc	ctgggcctgt	cacacctact	gatgaccttc	tgtgcctgca	ggatggaatg	300
taggggtgag	ctgtgtgact	ctatgggt				327

<210> 147
 <211> 173
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(173)
 <223> n = A,T,C or G

<400> 147

acattgtttt	tttgagataa	agcattgana	gagctctcct	taacgtgaca	caatggaagg	60
actggaacac	ataccacat	ctttgttctg	agggataatt	ttctgataaa	gtcttgctgt	120
atattcaagc	acatatgtta	tatattattc	agttccatgt	ttatagccta	gtt	173

<210> 148

TC6626=6903260



<211> 477
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(477)
 <223> n = A,T,C or G

<400> 148
 acaaccactt tatctcatcg aatttttaac ccaaactcac tcaactgtgcc tttctatcct 60
 atgggatata ttatttgatg ctccatttca tcacacatat atgaataata cactcatact 120
 gccctactac ctgctgcaat aatcacattc ccttcctgtc ctgaccctga agccattggg 180
 gtggtcctag tggccatcag tccangcctg caccttgagc ccttgagctc cattgctcac 240
 nccanccac ctcaccgacc ccatacctctt acacagctac ctccctgtc tctaacccca 300
 tagattatnt ccaaattcag tcaattaagt tactattaac actctacccg acatgtccag 360
 caccactggg aagccttctc cagccaacac acacacacac acacncacac acacacatat 420
 ccaggcacag gctacctcat cttcacaatc acccctttaa ttaccatgct atgggtgg 477

<210> 149
 <211> 207
 <212> DNA
 <213> Homo sapien

<400> 149
 acagttgtat tataatatca agaaataaac ttgcaatgag agcatttaag agggaagaac 60
 taacgtatnt tagagagcca aggaagggtt ctgtggggag tgggatgtaa ggtggggcct 120
 gatgataaat aagagtcagc caggtaagtg ggtggtgtgg tatgggcaca gtgaagaaca 180
 tttcaggcag agggaacagc agtgaaa 207

<210> 150
 <211> 111
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(111)
 <223> n = A,T,C or G

<400> 150
 accttgatnt cattgctgct ctgatggaaa cccaactatc taatttagct aaaacatggg 60
 cacttaaatg tggtcagtgt ttggacttgt taactantgg catctttggg t 111

<210> 151
 <211> 196
 <212> DNA
 <213> Homo sapien

<400> 151
 agcgcggcag gtcattattga acattccaga tacctatcat tactcgatgc tgttgataac 60
 agcaagatgg ctttgaactc agggtcacca ccagctattg gaccttacta tgaaaaccat 120
 ggataccaac cggaacccc ctatcccga cagccactg tgggtcccccac tgtctacgag 180
 gtgcatccgg ctgagt 196

<210> 152
 <211> 132
 <212> DNA
 <213> Homo sapien

<400> 152
 acagcacttt cacatgtaag aaggagagaaa ttcctaaatg taggagaaag ataacagAAC 60
 cttccccttt tcatctagtG gtggaaacct gatgctttat gttgacagga atagaaccag 120
 gagggagttt gt 132

<210> 153
 <211> 285
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(285)
 <223> n = A,T,C or G

<400> 153
 acaanaccca nganaggcca ctggccgtgg tgatcatggcc tccaaacatg aaagtgtcag 60
 cttctgctct tatgtcctca tctgacaact ctttaccatt tttatcctcg ctcagcagga 120
 gcacatcaat aaagtccaaa gtcttggaact tggccttggc ttggaggaag tcatcaaac 180
 cctggctagt gaggggtgcg cgccgtcctt ggatgacggc atctgtgaag tcgtgcacca 240
 gtctgcaggc cctgtggaag cgccgtccac acggagtnag gaatt 285

<210> 154
 <211> 333
 <212> DNA
 <213> Homo sapien

<400> 154
 accacagtcc tggttgggcca gggcttcatg accctttctg tgaaaagcca tattatcacc 60
 accccaaatt tttccttaaa tatctttaac tgaaggggtc agcctcttga ctgcaaagac 120
 cctaagccgg ttacacagct aactcccact ggccctgatt tgtgaaattg ctgctgcctg 180
 attggcacag gagtcgaagg tgttcagctc ccctcctcgg tggaacgaga ctctgatttg 240
 agtttcacaa attctcgggc cacctcgtca ttgctcctct gaaataaaat ccggagaatg 300
 gtcaggcctg tctcatccat atggatcttc cgg 333

<210> 155
 <211> 308
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(308)
 <223> n = A,T,C or G

<400> 155
 actggaaata ataaaaccca catcacagtG ttgtgtcaaa gatcatcagg gcatggatgg 60
 gaaagtgcct tgggaaactgt aaagtgccta acacatgatc gatgattttt gttataatat 120

```

ttgaatcacg gtgcatacaa actctcctgc ctgctcctcc tgggccccag cccagcccc 180
atcacagctc actgctctgt tcatccaggc ccagcatgta gtggctgatt cttcttggt 240
gcttttagcc tccanaagtt tctctgaagc caaccaaacc tctangtgta aggcattgtg 300
gccttggt 308

```

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<210> 156
<211> 295
<212> DNA
<213> Homo sapien

```

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<400> 156
accttgctcg gtgcttgga catattagga actcaaaata tgagatgata acagtgccta 60
ttattgatta ctgagagaac tgtagacat ttagttgaag attttctaca caggaactga 120
gaataggaga ttatgtttgg ccctcatatt ctctcctatc ctcccttgct cattctatgt 180
ctaatatatt ctcaatcaaa taaggttagc ataatcagga aatcgaccaa ataccaatat 240
aaaaccagat gtctatcctt aagattttca aatagaaaac aaattaacag actat 295

```

```

<210> 157
<211> 126
<212> DNA
<213> Homo sapien

```

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<400> 157
acaagtttaa atagtgtgt cactgtgcat gtgctgaaat gtgaaatcca ccacatttct 60
gaagagcaaa acaaattctg tcatgtaatc tctatcttgg gtcgtgggta tatctgtccc 120
cttagt 126

```

```

<210> 158
<211> 442
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1)...(442)
<223> n = A,T,C or G

```

```

<400> 158
accactgggt cttggaaaca cccatcctta atacgatgat ttttctgtcg tgtgaaaatg 60
aanccagcag gctgccccta gtcagtccct ccttccagag aaaaagagat ttgagaaagt 120
gcctgggtaa ttcaccatta atttccctcc ccaaactctc tgagtcttcc cttaatattt 180
ctgggtgggtc tgaccaaagc aggtcatggg ttgttgagca ttggggatcc cagtgaagta 240
natgtttgta gccttgcata cttagccctt cccacgcaca aacggagtgg cagagtgggtg 300
ccaaccctgt tttcccagtc cacgtagaca gattcacagt gcggaattct ggaagctgga 360
nacagacggg ctctttgcag agccgggact ctgagangga catgagggcc tctgcctctg 420
tgttcattct ctgatgtcct gt 442

```

```

<210> 159
<211> 498
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature

```

<222> (1)...(498)

<223> n = A,T,C or G

<400> 159

acttccaggt aacgttggtg tttccgttga gcctgaactg atgggtgacg ttgtagggtc	60
tccaacaaga actgaggttg cagagcgggt aggggaagagt gctgttccag ttgcacctgg	120
gctgctgtgg actgttggtg attcctcact acggcccaag gttgtggaac tggcanaaag	180
gtgtgttggt gganttgagc tcgggcgggt gtggtaggtt gtgggctctt caacaggggc	240
tgctgtggtg ccggggangtg aangtggtgt gtcacttgag cttggccagc tctggaaagt	300
antanattct tcctgaaggc cagcgttgtt ggagctggca ngggtcantg ttgtgtgtaa	360
cgaaccagtg ctgctgtggg tgggtgtana tcctccacaa agcctgaagt tatggtgten	420
tcaggtaana atgtggtttc agtgtccctg ggcngctgtg gaaggttgta nattgtcacc	480
aagggaataa gctgtggt	498

<210> 160

<211> 380

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(380)

<223> n = A,T,C or G

<400> 160

acctgcatcc agcttccctg ccaaactcac aaggagacat caacctctag acagggaaac	60
agcttcagga tacttccagg agacagagcc accagcagca aaacaaatat tcccatgcct	120
ggagcatggc atagaggaag ctganaaatg tggggtctga ggaagccatt tgagtctggc	180
cactagacat ctcctcagcc acttggtgtg agagatgcc catgacccca gatgcctctc	240
ccacccttac ctccatctca cacacttgag ctttccactc tgtataattc taacatcctg	300
gagaaaaatg gcagtttgac cgaacctgtt cacaacggta gaggtgatt tctaacgaaa	360
cttgtagaat gaagcctgga	380

<210> 161

<211> 114

<212> DNA

<213> Homo sapien

<400> 161

actccacatc cctctgagc aggcgggtgt cgttcaaggt gtatttggcc ttgcctgtca	60
cactgtccac tggccctta tcacttggt gcttaatccc tcgaaagagc atgt	114

<210> 162

<211> 177

<212> DNA

<213> Homo sapien

<400> 162

actttctgaa tcgaatcaaa tgatacttag tgtagtttta atatcctcat atatatcaaa	60
gttttactac tctgataatt ttgtaaacca ggtaaccaga acatccagtc atacagcttt	120
tggtgatata taacttggca ataaccagc ctggtgatac ataaaactac tcactgt	177

<210> 163

<211> 137

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(137)
<223> n = A,T,C or G

<400> 163
catttataca gacaggcgtg aagacattca cgacaaaaac gcgaaattct atcccgtgac 60
canagaaggc agctacggct actcctacat cctggcgtgg gtggccttcg cctgcacctt 120
catcagcggc atgatgt 137

<210> 164
<211> 469
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(469)
<223> n = A,T,C or G

<400> 164
cttatcacia tgaatgttct cctgggcagc gttgtgatct ttgccacctt cgtgacttta 60
tgcaatgcat catgctatct catacctaata gagggagttc caggagattc aaccaggaaa 120
tgcatggatc tcaaaggaaa caaacaccca ataaactcgg agtggcagac tgacaactgt 180
gagacatgca cttgctacga aacagaaatt tcatgttgca cccttgtttc tacacctgtg 240
ggttatgaca aagacaactg ccaaagaatc ttcaagaagg aggactgcaa gtatatcgtg 300
gtggagaaga aggacccaaa aaagacctgt tctgtcagtg aatggataat ctaatgtgct 360
tctagtaggc acagggctcc caggccaggc ctcattctcc tctggcctct aatagtcaat 420
gattgtgtag ccatgcctat cagtaaaaag atntttgagc aaacacttt 469

<210> 165
<211> 195
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(195)
<223> n = A,T,C or G

<400> 165
acagtttttt atanatatcg acattgccgg cacttgtggt cagtttcata aagctgggtg 60
atccgctgtc atccactatt ccttggtctag agtaaaaatt attccttatag cccatgtccc 120
tgcaggccgc ccgcccgtag ttctcgttcc agtcgtcttg gcacacaggg tgccaggact 180
tcctctgaga tgagt 195

<210> 166
<211> 383
<212> DNA
<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 166
 acatcttagt agtgtggcac atcagggggc catcagggtc acagtcactc atagcctcgc 60
 cgaggtcgga gtccacacca ccggtgtagg tgtgtcctaat cttgggcttg gcgcccacct 120
 ttggagaagg gatatgctgc acacacatgt ccacaaagcc tgtgaactcg ccaaagaatt 180
 tttgcagacc agcctgagca aggggcgggat gttcagcttc agctcctcct tcgtcagggtg 240
 gatgccaacc tcgtctangg tccgtgggaa gctgggtgtcc acntcaccta caacctgggc 300
 gangatctta taaagaggct ccnagataaa ctccacgaaa cttctctggg agctgctagt 360
 nggggccttt ttggtgaact ttc 383

<210> 167
 <211> 247
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(247)
 <223> n = A,T,C or G

<400> 167
 acagagccag accttggcca taaatgaanc agagattaag actaaacccc aagtcganat 60
 tggagcagaa actggagcaa gaagtgggcc tggggctgaa gtagagacca aggccactgc 120
 tatanccata cacagagcca actctcaggc caaggcnatg gttggggcag anccagagac 180
 tcaatctgan tccaaagtgg tggctggaac actggtcatg acanaggcag tgactctgac 240
 tgangtc 247

<210> 168
 <211> 273
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(273)
 <223> n = A,T,C or G

<400> 168
 acttctaagt tttctagaag tggaaggatt gtantcatcc tgaaaatggg tttacttcaa 60
 aatccctcan ccttgttctt cactactgtc tatactgana gtgtcatggt tccacaaagg 120
 gctgacacct gagcctgnat tttactcat ccctgagaag ccctttccag taggggtggc 180
 aattcccaac ttccttgcca caagcttccc aggcctttctc ccctggaaaa ctccagcttg 240
 agtccagat acactcatgg gctgccttgg gca 273

<210> 169
 <211> 431
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(431)
 <223> n = A,T,C or G

<400> 169

acagccttgg	cttcccaaaa	ctccacagtc	tcagtgcaga	aagatcatct	tccagcagtc	60
agctcagacc	agggtcaaaag	gatgtgacat	caacagtttc	tggtttcaga	acaggttcta	120
ctactgtcaa	atgaccccc	atacttcctc	aaaggctgtg	gtaagttttg	cacaggtgag	180
ggcagcagaa	aggggggtant	tactgatgga	caccatcttc	tctgtatact	ccacactgac	240
cttgccatgg	gcaaaggccc	ctaccacaaa	aacaatagga	tactgctgg	gcaccagctc	300
acgcacatca	ctgacaaccg	ggatggaaaa	agaantgcc	actttcatac	atccaactgg	360
aaagtgatct	gatactggat	tcttaattac	cttcaaaaagc	ttctgggggc	catcagctgc	420
tcgaacactg	a					431

<210> 170
 <211> 266
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(266)
 <223> n = A,T,C or G

<400> 170

acctgtgggc	tgggctgtta	tgctgtgcc	ggctgctgaa	agggagtcca	gaggtggagc	60
tcaaggagct	ctgcaggcat	tttgccaanc	ctctccanag	canagggagc	aacctacact	120
ccccgctaga	aagacaccag	attggagtcc	tgggaggggg	agttgggggtg	ggcatttgat	180
gtatacttgt	cacctgaatg	aangagccag	agaggaanga	gacgaanatg	anattggcct	240
tcaaagctag	gggtctggca	ggtgga				266

<210> 171
 <211> 1248
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(1248)
 <223> n = A,T,C or G

<400> 171

ggcagccaaa	tcataaacgg	cgaggactgc	agcccgcact	cgcagccctg	gcaggcggca	60
ctgggtcatgg	aaaacgaatt	gttctgctcg	ggcgtcctgg	tgcataccgca	gtgggtgctg	120
tcagccgcac	actgtttcca	gaagtgagtg	cagagctcct	acaccatcgg	gctgggcctg	180
cacagtcttg	aggccgacca	agagccaggg	agccagatgg	tggaggccag	cctctccgta	240
cggcaccag	agtacaacag	acccttgctc	gctaacgacc	tcatgctcat	caagttggac	300
gaatccgtgt	ccgagtctga	caccatccgg	agcatcagca	ttgcttcgca	gtgccctacc	360
gcggggaact	cttgccctcgt	ttctggctgg	ggtctgctgg	cgaacggcag	aatgcctacc	420
gtgctgcagt	gcgtgaacgt	gtcggtggtg	tctgaggagg	tctgcagtaa	gctctatgac	480
ccgctgtacc	accccagcat	gttctgcgcc	ggcggagggc	aagaccagaa	ggactcctgc	540
aacggtgact	ctggggggcc	cctgatctgc	aacgggtact	tgcaaggcct	tgtgtctttc	600
ggaaaagccc	cgtgtggcca	agttggcgtg	ccaggtgtct	acaccaacct	ctgcaaattc	660
actgagtgga	tagagaaaac	cgtccaggcc	agttaactct	ggggactggg	aacccatgaa	720

```
<210> 172
<211> 159
<212> PRT
<213> Homo sapien
```

```
<220>  
<221> VARIANT  
<222> (1)...(159)  
<223> Xaa = Any Amino Acid
```

Met	Val	Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro
1				5					10					15	
Leu	Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser
			20					25					30		
Glu	Ser	Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr
		35					40					45			
Ala	Gly	Asn	Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly
	50				55						60				
Arg	Met	Pro	Thr	Val	Leu	Gln	Cys	Val	Asn	Val	Ser	Val	Val	Ser	Glu
65					70				75						80
Glu	Val	Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met	Phe
				85					90					95	
Cys	Ala	Gly	Gly	Gly	Gln	Xaa	Gln	Xaa	Asp	Ser	Cys	Asn	Gly	Asp	Ser
			100					105					110		
Gly	Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe
		115					120					125			
Gly	Lys	Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn
	130				135						140				
Leu	Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser	
145					150					155					

```
<210> 173
<211> 1265
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(1265)
<223> n = A,T,C or G
```

ggcagcccgc actcgcagcc ctggcagggc gcaactggtca tggaaaacga attgtttctgc 60

```
<210> 174
<211> 1459
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(1459)
<223> n = A,T,C or G
```

<400> 174						
ggtcagccgc	acactgtttc	cagaagtgag	tgcagagctc	ctacaccatc	gggctgggcc	60
tgcacagtct	tgaggccgac	caagagccag	ggagccagat	ggtggaggcc	agcctctccg	120
tacggcacc	agagtacaac	agacccttgc	tcgctaacga	cctcatgctc	atcaagttgg	180
acgaatccgt	gtccgagtct	gacaccatcc	ggagcatcag	cattgcttcg	cagtgcccta	240
ccgcggggaa	ctcttgccct	gtttctggct	ggggtctgct	ggcgaacggg	gagctcacgg	300
gtgtgtgtct	gccctcttca	aggaggtcct	ctgccagctc	gcgggggctg	accagagct	360
ctgctccca	ggcagaatgc	ctaccgtgct	gcagtgcgtg	aacgtgtcgg	tggtgtctga	420
ngaggtctgc	antaagctct	atgaccgcct	gtaccacccc	ancatgttct	gcgcggcg	480
agggcaagac	cagaaggact	cctgcaacgt	gagagagggg	aaaggggagg	gcaggcgact	540
cagggaaggg	tggagaaggg	ggagacagag	acacacaggg	ccgcatggcg	agatgcagag	600
atggagagac	acacagggag	acagtgacaa	ctagagagag	aaactgagag	aaacagagaa	660
ataaacacag	gaataaagag	aagcaaagga	agagagaaac	agaaacagac	atggggaggc	720
agaaacacac	acacatagaa	atgcagttga	ccttccaaca	gcatggggcc	tgagggcggt	780
gacctccacc	caatagaaaa	tcctcttata	acttttgact	ccccaaaaac	ctgactagaa	840
atagcctact	gttgacgggg	agccttacca	ataacataaa	tagtgcattt	atgcatacgt	900
tttatgcatt	catgatatac	ctttgttgga	attttttgat	atttctaagc	tacacagttc	960
gtctgtgaat	ttttttaaat	tgttgcaact	ctcctaaaaa	ttttctgatg	tgtttattga	1020
aaaaatccaa	gtataagtgg	actgtgcat	tcaaaccagg	gttgttcaag	ggtcaactgt	1080
gtaccagag	ggaaacagtg	acacagattc	atagaggtga	aacacgaaga	gaacacggaa	1140
aaatcaagac	tctacaaaga	ggctggggcag	gggtggctcat	gcctgtaatc	ccagcacttt	1200
gggaggcgag	gcaggcgagat	cacttgagggt	aaggagttca	agaccagcct	ggccaaaatg	1260

```

gtgaaatcct gtctgtacta aaaatacaaa agttagctgg atatggtggc aggcgcctgt 1320
aatcccagct acttgggagg ctgaggcagg agaattgctt gaatatggga ggcagagggt 1380
gaagtgagtt gagatcacac cactatactc cagctggggc aacagagtaa gactctgtct 1440
caaaaaaaaa aaaaaaaaaa 1459

```

```

<210> 175
<211> 1167
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1167)
<223> n = A,T,C or G

```

```

<400> 175
gcgcagccct ggcaggcggc actggtcatg gaaaacgaat tgttctgctc gggcgtcctg 60
gtgcattccg agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg 120
ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggt ggaggccagc 180
ctctccgtac ggcacccaga gtacaacaga ctcttgctcg ctaacgacct catgctcatc 240
aagttggacg aatccgtgtc cgagtctgac accatccgga gcatcagcat tgcttcgcag 300
tgccctaccg cggggaactc ttgcctogtn tctggctggg gtctgctggc gaacggcaga 360
atgcctaccg tgctgcactg cgtgaacgtg tcgggtggtg ctgaggangt ctgcagtaag 420
ctctatgacc cgctgtacca cccagcatg ttctgcgccg gcggaggggca agaccagaag 480
gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 540
gtgtctttcg gaaaagcccc gtgtggccaa cttggcgtgc cagggtgtct caccaacctc 600
tgcaaattca ctgagtggat agagaaaacc gtccagncca gttaactctg gggactggga 660
acccatgaaa ttgaccccca aatacatcct gcggaangaa ttcaggaata tctgttccca 720
gcccctcctc cctcaggccc aggagtccag gcccagcc cctcctccct caaaccaagg 780
gtacagatcc ccagcccctc ctccctcaga cccaggagtc cagaccccccc agcccctcnt 840
cntcagacc caggagtcca gccctcctc cntcagacgc aggagtccag acccccagc 900
cntcntccg tcagaccagc ggggtcaggc cccaacccc tcntcntca gagtccagagg 960
tccaaagccc caaccctcg ttcccagac ccagaggtnc aggtcccagc cctcctccc 1020
tcagaccagc cgggtccaat ccacctagan tntccctgta cacagtgcc ccttgtggca 1080
ngttgacca accttaccag ttggtttttc attttttgc cctttccct agatccagaa 1140
ataaagtnta agagaagcgc aaaaaaa 1167

```

```

<210> 176
<211> 205
<212> PRT
<213> Homo sapien

```

```

<220>
<221> VARIANT
<222> (1)...(205)
<223> Xaa = Any Amino Acid

```

```

<400> 176
Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
 1           5           10           15
Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
          20           25           30
Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
          35           40           45

```

Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Leu Leu Leu
 50 55 60
 Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
 65 70 75 80
 Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly
 85 90 95
 Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met
 100 105 110
 Pro Thr Val Leu His Cys Val Asn Val Ser Val Val Ser Glu Xaa Val
 115 120 125
 Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala
 130 135 140
 Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly
 145 150 155 160
 Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys
 165 170 175
 Ala Pro Cys Gly Gln Leu Gly Val Pro Gly Val Tyr Thr Asn Leu Cys
 180 185 190
 Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Xaa Ser
 195 200 205

<210> 177
 <211> 1119
 <212> DNA
 <213> Homo sapien

<400> 177

gcgcactcgc	agccctggca	ggcggcactg	gtcatggaaa	acgaattggt	ctgctcgggc	60
gtcctggtgc	atccgcagtg	ggtgctgtca	gccgcacact	gtttccagaa	ctcctacacc	120
atcgggctgg	gcctgcacag	tcttgaggcc	gaccaagagc	cagggagcca	gatggtggag	180
gccagcctct	ccgtacggca	cccagagtac	aacagaccct	tgctcgctaa	cgacctcatg	240
ctcatcaagt	tggacgaatc	cgtgtccgag	tctgacacca	tccggagcat	cagcattgct	300
tgcagtgcc	ctaccgcggg	gaactcttgc	ctcgtttctg	gctggggtct	gctggcgaac	360
gatgctgtga	ttgccatcca	gtcccagact	gtgggaggct	gggagtgtga	gaagctttcc	420
caaccctggc	agggttgtac	catttcggca	acttccagtg	caaggacgtc	ctgctgcac	480
ctcactgggt	gctcactact	gctcactgca	tcacccggaa	caactgtgatc	aactagccag	540
caccatagtt	ctccgaagtc	agactatcat	gattactgtg	ttgactgtgc	tgtctattgt	600
actaaccatg	ccgatgttta	ggtgaaatta	gcgtcacttg	gcctcaacca	tcttggtatc	660
cagttatcct	cactgaattg	agatttctctg	cttcagtgtc	agccattccc	acataatttc	720
tgacctacag	agggtgaggga	tcatatagct	cttcaaggat	gctggtactc	ccctcacaaa	780
ttcattttctc	ctgttgtagt	gaaagggtgcg	ccctctggag	cctcccaggg	tgggtgtgca	840
ggtcacaaatg	atgaatgtat	gatcgtgttc	ccattaccca	aagccttta	atccctcatg	900
ctcagtacac	cagggcaggt	ctagcatttc	ttcatttagt	gtatgctgtc	cattcatgca	960
accacctcag	gactcctgga	ttctctgcct	agttgagctc	ctgcatgctg	cctccttggg	1020
gaggtgaggg	agagggccca	tggttcaatg	ggatctgtgc	agttgtaaca	cattaggtgc	1080
ttaataaaca	gaagctgtga	tgttaaaaaa	aaaaaaaaa			1119

<210> 178
 <211> 164
 <212> PRT
 <213> Homo sapien

<220>
 <221> VARIANT

<223> Xaa = Any Amino Acid

[illegible]

<211> 250

<213> Homo sapien

ctggagtgcc	ttggtgtttc	aagccctgc	aggaagcaga	atgcaccttc	tgaggcacct	60
ccagctgcc	cgggccggg	gatgcgaggc	tggagcacc	cttgcccggc	tgtgattgct	120
gccaggcact	gttcattctca	gctttttctgt	ccctttgctc	cgggcaagcg	cttctgctga	180
aagttcatat	ctggagcctg	atgtcttaac	gaataaaggt	cccattgctc	acccgaaaaa	240
aaaaaaaaaa						250

<211> 202

<213> Homo sapien

```
actagtccag tgtggtggaa ttccattgtg ttgggcccaa cacaatggct acctttaaca      60
tcacccagac cccgcccctg cccgtgcccc acgctgctgc taacgacagt atgatgetta      120
ctctgctact cggaaactat ttttatgtaa ttaatgtatg ctttcttgtt tataaatgcc      180
tgattttaaaa aaaaaaaaaa aa                                202
```

<211> 558

<213> Homo sapien

<400> 181

```
<210> 182
<211> 479
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(479)  
<223> n = A,T,C or G
```

<400> 182

acagggwttk	grggatgcta	agsgcccrga	rwtggtttga	tccaaccctg	gcttwttttc	60
agaggggaaa	atggggccta	gaagttacag	mscatytagy	tggtgcmgtg	gcacccttg	120
cstcacacag	astcccgagt	agctgggact	acaggcacac	agtcactgaa	gcaggccctg	180
ttwgcaattc	acgttgccac	ctccaactta	aacattcttc	atatgtgatg	tccttagtca	240
ctaagggttaa	actttcccac	ccagaaaagg	caacttagat	aaaatcttag	agtactttca	300
tactmttcta	agtcctcttc	cagcctcact	kkgatgctct	cytgggggtt	gataggaant	360
ntctcttggc	tttctcaata	aartctctat	ycatctcatg	tttaattttg	tacgcataara	420
awtgstgara	aaattaaaat	qttctgqtty	mactttaaaa	aaaaaaaaaa	aaaaaaaaaa	479

```
<210> 183
<211> 384
<212> DNA
<213> Homo sapien
```

<400> 183

agggcgggagc	agaagctaaa	gccaaagccc	aagaagagtg	gcagtgccag	cactggtgcc	60
agtaccagta	ccaataacag	tgccagtgcc	agtgccagca	ccagtgggtg	cttcagtgtc	120
ggtgccagcc	tgaccgccac	tctcacattt	gggctcttcg	ctggccttgg	tggagctggt	180
gccagcacca	gtggcagctc	tggtgcctgt	ggtttctcct	acaagtgaga	ttttagatat	240
tgtaaactct	gccagtcctt	ctcttcaagc	cagggtgcat	cctcagaaac	ctactcaaca	300
cagcattcta	ggcagccatt	atcaatcaat	tgaagttgac	actctgcatt	aratctattt	360
gccatttcaa	aaaaaaaaaa	aaaa				384

<210> 184
<211> 496

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(496)
<223> n = A,T,C or G

<400> 184
accgaattgg gaccgctggc ttataagcga tcatgtyynt ccrgtatkac ctcaacgagc 60
aggagatcg agtctatacg ctgaagaaat ttgacccgat gggacaacag acctgctcag 120
cccatcctgc tcggttctcc ccagatgaca aatactctsg acaccgaatc accatcaaga 180
aacgcttcaa ggtgctcatg acccagcaac cgcgcctgt cctctgaggg tcccttaaac 240
tgatgtcttt tctgccacct gttacccctc ggagactccg taaccaaact cttcggactg 300
tgagccctga tgcctttttg ccagccatac tctttggcat ccagtctctc gtggcgattg 360
attatgcttg tgtgaggcaa tcatggtggc atcacccata aagggaacac atttgacttt 420
tttttctcat attttaaatt actacmagaw tattwmagaw waaatgawtt gaaaaactst 480
taaaaaaaaa aaaaaa 496

<210> 185
<211> 384
<212> DNA
<213> Homo sapien

<400> 185
gctggtagcc tatggcgkgg cccacggagg ggctcctgag gccacggrac agtgacttcc 60
caagtatcyt gcgcsgcgtc ttctaccgtc cctacctgca gatcttcggg cagattcccc 120
aggaggacat ggacgtggcc ctcatggagc acagcaactg ytcgtcggag cccggcttct 180
gggcacaccc tcctggggcc caggcgggca cctgcgtctc ccagtatgcc aactggctgg 240
tggtgctgct cctcgtcatc ttctgctcgc tggccaacat cctgctggtc aacttgctca 300
ttgccatgtt cagttacaca ttcggaag tacagggcaa cagcgatctc tactgggaag 360
gcgcagcgtt accgcctcat ccgg 384

<210> 186
<211> 577
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(577)
<223> n = A,T,C or G

<400> 186
gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggctctctgc ttcataccgc 60
tnccatcgct atactgtagg tttgccacca cytcctggca tcttggggcg gcntaatatt 120
ccaggaaact ctcaatcaag tcaccgtcga tgaaacctgt gggctgggtc tgtcttcgc 180
tcggtgtgaa aggatctccc agaaggagtg ctcgatcttc ccacacttt tgatgacttt 240
attgagtcga ttctgcatgt ccagcaggag gttgtaccag ctctctgaca gtgaggtcac 300
cagccctatc atgccgttga mcgtgccgaa garcaccgag cettgtgtgg gggkkgaagt 360
ctcaccacaga ttctgcatta ccagagagcc gtggcaaaag acattgacaa actcgccag 420
gtggaaaaag amcamctcct ggargtgctn gccgtcctc gtcmgttggt ggcagcgctw 480
tccttttgac acacaaacaa gttaaaggca ttttcagccc ccagaaantt gtcacatcc 540
aagatntcgc acagactna tccagttggg attaaat 577

<210> 187
 <211> 534
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(534)
 <223> n = A,T,C or G

<400> 187
 aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgstg agaatycaatw 60
 actkggaaaa gmaacattaa agcctggaca ctggtattaa aattcacaat atgcaacact 120
 ttaaacagtg tgtcaatctg ctcccyynac ttgtcatca ccagtctggg aakaagggta 180
 tgccctattc acacctgita aaagggcgct aagcattttt gattcaacat cttttttttt 240
 gacacaagtc cgaaaaaagc aaaagtaaac agttatyaat ttgttagcca attcactttc 300
 ttcattggac agagccatyt gatttaaaaa gcaaattgca taatattgag ctttygggagc 360
 tgatatttga gcggaagagt agcctttcta ctccaccaga cacaactccc ttcatattg 420
 ggatgttnac naaagtwatg tctctwacag atgggatgct tttgtggcaa ttctgttctg 480
 aggatctccc agtttattta ccacttgcac aagaaggcgt tttcttcctc aggc 534

<210> 188
 <211> 761
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(761)
 <223> n = A,T,C or G

<400> 188
 agaaaccagt atctctnaaa acaacctctc atacottgtg gacctaatth ttgtgtgcgtg 60
 tgtgtgtgcg cgcataattat atagacaggc acatcttttt tacttttgta aaagcttatg 120
 cctcttttgg atctatatct gtgaaagttt taatgatctg ccataatgtc ttggggacct 180
 ttgtcttctg tgtaaatggt actagagaaa acacctatnt tatgagtcaa tctagttngt 240
 tttattcgac atgaaggaaa tttccagatn acaacactna caaactctcc ctkgackarg 300
 ggggacaaaag aaaagcaaaa ctgamcataa raaacaatwa cctggtgaga arttgcataa 360
 acagaaatwr ggtagtatat tgaarnacag catcattaaa rmgttwtktt wttctccctt 420
 gcaaaaaaca tgtaacngact tcccgttgag taatgccaaag ttgttttttt tatnataaaa 480
 cttgcccttc attacatggt tnaaagtggg gtggtgggcc aaaatattga aatgatggaa 540
 ctgactgata aagctgtaca aataagcagt gtgcctaaca agcaacacag taatgttgac 600
 atgcttaatt cacaaatgct aatttcatta taaatgtttg ctaaaataca ctttgaacta 660
 tttttctgtn ttcccagagc tgagatntta gattttatgt agtatnaagt gaaaaantac 720
 gaaaataata acattgaaga aaaananaaa aaanaaaaaa a 761

<210> 189
 <211> 482
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<222> (1)...(482)

<223> n = A,T,C or G

<400> 189

tttttttttt	tttgccgatn	ctactatttt	attgcaggan	gtgggggtgt	atgcaccgca	60
caccgggggt	atnagaagca	agaaggaagg	agggagggca	cagccccttg	ctgagcaaca	120
aagccgcctg	ctgccttctc	tgtctgtctc	ctggtgcagg	cacatgggga	gaccttcccc	180
aaggcagggg	ccaccagtcc	aggggtggga	atacaggggg	tgggangtgt	gcataagaag	240
tgataggcac	aggccacccg	gtacagaccc	ctcggctcct	gacaggtnga	tttcgaccag	300
gtcattgtgc	cctgcccagg	cacagcgtan	atctggaaaa	gacagaatgc	tttccttttc	360
aaatttggct	ngtcatngaa	ngggcanttt	tccaanttng	gctnngtctt	ggtacncttg	420
gttcggccca	gctccncgtc	caaaaantat	tcacccnnct	ccnaattgct	tcnngncccc	480
cc						482

<210> 190

<211> 471

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(471)

<223> n = A,T,C or G

<400> 190

tttttttttt	ttttaaaaca	gtttttcaca	acaaaattta	ttagaagaat	agtggttttg	60
aaaactctcg	catccagtga	gaactacat	acaccacatt	acagctngga	atgtnotcca	120
aatgtctggt	caaatgatac	aatggaacca	ttcaatctta	cacatgcacg	aaagaacaag	180
cgcttttgac	atacaatgca	caaaaaaaaa	aggggggggg	gaccacatgg	attaaaattt	240
taagtactca	tcacatacat	taagacacag	ttctagtcca	gtcnaaaatc	agaactgcnt	300
tgaaaaattt	catgtatgca	atccaaccaa	agaacttnat	tggtgatcat	gantnctcta	360
ctacatcnac	cttgatcatt	gccaggaacn	aaaagttnaa	ancacncngt	acaaaaanaa	420
tctgtaattn	anttcaacct	ccgtacngaa	aaatnttnnt	tatacactcc	c	471

<210> 191

<211> 402

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(402)

<223> n = A,T,C or G

<400> 191

gagggattga	aggtctgttc	tastgtcggm	ctgttcagcc	accaactcta	acaagttgct	60
gtcttccact	cactgtctgt	aagcttttta	acccagacwg	tatcttcata	aatagaacaa	120
attcttcacc	agtcacatct	tctaggacct	ttttggattc	agttagtata	agctcttcca	180
cttcctttgt	taagacttca	tctggtaaag	tcttaagttt	tgtagaaagg	aattyaattg	240
ctcgttctct	aacaatgtcc	tctccttgaa	gtatttggct	gaacaacca	cctaaagtcc	300
ctttgtgcat	ccattttaaa	tatacttaat	agggcattgk	tncactaggt	taaattctgc	360
aagagtcac	tgtctgcaaa	agttgcgtta	gtatatctgc	ca		402

<210> 192

<211> 601
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(601)
 <223> n = A,T,C or G

```

<400> 192
gagctcggat ccaataatct ttgtctgagg gcagcacaca tatncagtgc catggnaact      60
ggtctacccc acatgggagc agcatgccgt agntatataa ggtcattccc tgagtcagac      120
atgcytyttt gaytaccggt tgccaagtgc tgggtgattct yaacacacyt ccatcccgt      180
cttttgtgga aaaactggca cttktctgga actagcarga catcacttac aaattcacc      240
acgagacact tgaaagggtg aacaaagcga ytcttgcatg gctttttgtc cctccggcac      300
cagttgtcaa tactaaccgg ctgggtttgcc tccatcacat ttgtgatctg tagctctgga      360
tacatctcct gacagtactg aagaacttct tcttttgttt caaaagcarc tcttggtgcc      420
tgttgatca ggttcccatt tcccagtcyg aatgttcaca tggcatattt wacttcccac      480
aaaacattgc gatttgaggc tcagcaacag caaatcctgt tccggcattg gctgcaagag      540
cctcgatgta gccggccagc gccaaaggcag gcgcctgag cccaccagc agcagaagca      600
g
  
```

<210> 193
 <211> 608
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(608)
 <223> n = A,T,C or G

```

<400> 193
atacagccca natcccacca cgaagatgcg cttgttgact gagaacctga tgcggtcact      60
ggtcccgtcg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcytt      120
cccaacgcag gcagmagcgg gscgggtcaa tgaactccay tctgtggttg gggtkgacgg      180
tkaagtgcag gaagaggctg accacctcgc ggtccaccag gatgcccgac tgtgcgggac      240
ctgcagcgaa actcctcgat ggtcatgagc gggaagcgaa tgaggcccag ggccttgccc      300
agaaccttcc gcctgttctc tggcgtcacc tgcagctgct gccgctgaca ctcggcctcg      360
gaccagcgga caaacggcrt tgaacagccg cacctcacgg atgcccagtg tgtcgcgctc      420
caggammgsc accagcgtgt ccaggtcaat gtcggtgaag cctccgcggg gtrattggcg      480
ctgcagtgtt tttgtcgatg ttctccaggc acaggctggc cagctgcggg tcatcgaaga      540
gtcgcgcctg cgtgagcagc atgaaggcgt tgcggctcgc cagttcttct tcaggaactc      600
cacgcaat
  
```

<210> 194
 <211> 392
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(392)
 <223> n = A,T,C or G

<400> 194

gaacggctgg	accttgccctc	gcattgtgct	tgctggcagg	gaataccttg	gcaagcagyt	60
ccagtccgag	cagccccaga	ccgctgccgc	ccgaagctaa	gcctgcctct	ggccttcccc	120
tccgcctcaa	tgcagaacca	gtagtgggag	cactgtgttt	agagttaaga	gtgaacactg	180
tttgatttta	cttggaatt	tcctctgtta	tatagctttt	cccaatgcta	atttccaaac	240
aacaacaaca	aaataacatg	tttgccctgtt	aagttgtata	aaagtaggtg	attctgtatt	300
taaagaaaat	attactgtta	catatactgc	ttgcaatttc	tgtattttatt	gktnctstgg	360
aaataaatat	agttattaaa	ggttgtcant	cc			392

<210> 195

<211> 502

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(502)

<223> n = A,T,C or G

<400> 195

ccsttkgagg	ggtkaggkyc	cagttyccga	gtggaagaaa	caggccagga	gaagtgcgtg	60
ccgagctgag	gcagatgttc	ccacagtgc	ccccagagcc	stgggstata	gtytctgacc	120
cctcncaagg	aaagaccacs	ttctggggac	atgggctgga	gggcaggacc	tagaggcacc	180
aagggaaggc	ccattcccg	ggstgttccc	cgaggaggaa	gggaaggggc	tctgtgtgcc	240
ccccasgagg	aagaggccct	gagtcctggg	atcagacacc	ccttcacgtg	tatccccaca	300
caaatgcaag	ctcaccaagg	tccccctctca	gtcccccttc	stacaccctg	amcggccact	360
gscscacacc	caccagagc	acgccacccg	ccatggggar	tgtgctcaag	gartcgcnng	420
gcarcgtgga	catctngtcc	cagaaggggg	cagaatctcc	aatagangga	ctgarcmstt	480
gctnanaaaa	aaaaanaaaa	aa				502

<210> 196

<211> 665

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(665)

<223> n = A,T,C or G

<400> 196

ggttacttgg	tttcattgcc	accacttagt	ggatgtcatt	tagaaccatt	ttgtctgctc	60
cctctggaag	ccttgccgag	agcggacttt	gtaattgttg	gagaataact	gctgaatttt	120
wagctgtttk	gagttgatts	gcaccactgc	accacaaact	tcaatatgaa	aacyawttga	180
actwatttat	tatcttgatg	aaagtataac	aatgaaaatt	ttgttcatac	tgtattkac	240
aagtatgatg	aaaagcaawa	gatatatatt	cttttattat	gttaaattat	gattgccatt	300
attaatcggc	aaaatgtgga	gtgtatgttc	ttttcacagt	aatatatgcc	ttttgtaact	360
tcacttggtt	attttattgt	aaatgartta	caaaattctt	aatttaagar	aatggatgt	420
watattttat	tcattaattt	ctttcctkgt	ttacgtwaat	tttgaaaaga	wtgcatgatt	480
tottgacaga	aatcgatctt	gatgctgtgg	aagtagtttg	accacatcc	ctatgagttt	540
ttcttagaat	gtataaaggt	tgtagcccat	cnaacttcaa	agaaaaaaat	gaccacatac	600
tttgcaatca	ggctgaaatg	tggcatgctn	ttctaattcc	aactttataa	actagcaaan	660
aagtg						665

<210> 197
 <211> 492
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(492)
 <223> n = A,T,C or G

<400> 197
 tttntttttt ttttttttgc aggaaggatt ccatttattg tggatgcatt ttcacaatat 60
 atgtttattg gagcgatcca ttatcagtga aaagatcaa gtgtttataa natttttagg 120
 aaggcagatt cacagaacat gctngtcngc ttgcagtttt acctcgtaana gatnacagag 180
 aattatagtc naaccagtaa acnaggaatt tacttttcaa aagattaaat ccaaactgaa 240
 caaaattcta ccctgaaaact tactccatcc aaatattgga ataanagtca gcagtgatac 300
 attctcttct gaacttttaga ttttctagaa aaatatgtaa tagtgatcag gaagagctct 360
 tgttcaaaag tacaacnaag caatgttccc ttaccatagg ccttaattca aactttgatc 420
 catttcactc ccatcacggg agtcaatgct acctgggaca cttgtatttt gtcatnctg 480
 ancntggctt aa 492

<210> 198
 <211> 478
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(478)
 <223> n = A,T,C or G

<400> 198
 tttnttttgn atttcantct gtannaanta ttttcattat gtttattana aaaatatnaa 60
 tgtntccacn acaaatcatn ttacntnagt aagaggccan ctacattgta caacatacac 120
 tgagtatatt ttgaaaagga caagttttaa gtanacncat attgccganc atancacatt 180
 tatacatggc ttgattgata tttagcacag canaaactga gtgagttacc agaaanaaat 240
 natatatgtc aatcngatit aagatacaaa acagatccta tggtagatan catcntgtag 300
 gagttgtggc tttatgttta ctgaaagtca atgcagttcc tgtacaaaga gatggccgta 360
 agcattctag tacctctact ccatgggttaa gaatcgtaca cttatgttta catatgtnta 420
 gggtaagaat tgtgttaagt naanttatgg agaggtccan gagaaaaatt tgatncaa 478

<210> 199
 <211> 482
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(482)
 <223> n = A,T,C or G

<400> 199
 agtgacttgt cctccaacaa aacccttga tcaagtttgt ggactgaca atcagacct 60

```

tgctagtcc  tgtcatctat  tgcctactaa  atgcagactg  gaggggacca  aaaaggggca  120
tcaactccag  ctggattatt  ttggagcctg  caaatctatt  cctacttgta  cggactttga  180
agtgattcag  tttcctctac  ggatgagaga  ctggctcaag  aatatactca  tgcagcttta  240
tgaagccnac  tctgaacacg  ctggttatct  nagatgagaa  ncagagaaat  aaagtcnaga  300
aaatttacct  ggangaaaag  aggctttngg  ctggggacca  tcccattgaa  ccttctctta  360
anggacttta  agaanaaact  accacatgtn  tgtngtatcc  tgggtgccngg  ccgtttantg  420
aacntngacn  ncacccttnt  ggaatanant  cttgacngcn  tcctgaactt  gtcctctgc  480
ga  482

```

```

<210> 200
<211> 270
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

```

```

<400> 200
cggccgcaag  tgcaactcca  gctggggccg  tgcggacgaa  gattctgcca  gcagttggtc  60
cgactgcgac  gacggcggcg  gcgacagtcg  caggtgcagc  gcggggcgct  ggggtcttgc  120
aaggctgagc  tgacgccgca  gaggtcgtgt  cacgtcccac  gaccttgacg  ccgtcggggg  180
cagccggaac  agagcccgtg  gaangcggga  ggcctcgggg  agcccctcgg  gaagggcggc  240
ccgagagata  cgcaggtgca  ggtggccgcc  270

```

```

<210> 201
<211> 419
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(419)
<223> n = A,T,C or G

```

```

<400> 201
tttttttttt  ttttggaaatc  tactgcgagc  acagcaggtc  agcaacaagt  ttatatttgca  60
gctagcaagg  taacagggtg  gggcatgggt  acatgttcag  gtcaacttcc  tttgtcgtgg  120
ttgattgggt  tgtctttatg  ggggcggggg  ggggtagggg  aaancgaagc  anaantaaca  180
tgagagtggg  gcaccctccc  tgtagaacct  ggttacnaaa  gcttggggca  gttcacctgg  240
tctgtgaccg  tcatttttct  gacatcaatg  ttattagaag  tcaggatata  ttttagagag  300
tocactgtnt  ctggaggagg  attaggggtt  cttgccana  tccaancaa  atccacntga  360
aaaagttgga  tgatncangt  acngaatacc  ganggcatan  ttctcatant  cgggtggcca  419

```

```

<210> 202
<211> 509
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(509)
<223> n = A,T,C or G

```


ttttttttnt	tttttttttt	ttttttnctc	ttcttttttt	ttganaatga	ggatcgagtt	60
tttcaactct	tagatagggc	atgaagaaaa	ctcatctttc	cagctttaaa	ataacaatca	120
aatctcttat	gctatatcat	attttaagtt	aaactaatga	gtcactggct	tatcttctcc	180
tgaaggaaat	ctgttcattc	ttctcattca	tatagttata	tcaagtacta	ccttgcatat	240
tgagaggttt	ttcttctcta	tttacacata	tatttccatg	tgaatttgta	tcaaaccttt	300
attttcatgc	aaactagaaa	ataatgtntt	cttttgcata	agagaagaga	acaatatnag	360
cattacaaaa	ctgctcaaat	tgtttgtaa	gnttatccat	tataattagt	tnggcaggag	420
ctaatacaaa	tcacatttac	ngacnagcaa	taataaaaact	gaagtaccag	ttaaatatcc	480
aaaataatta	aaggaacatt	tttagcctgg	gtataattag	ctaattcact	ttacaagcat	540

ttattnagaa tgaattcaca tggtattatt ccntagccca acacaatgg

589

<210> 205
 <211> 545
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(545)
 <223> n = A,T,C or G

<400> 205

ttttnttttt	ttttttcagt	aataatcaga	acaatattta	tttttatatt	taaaattcat	60
agaaaagtgc	cttacattta	ataaaaagttt	gtttctcaaa	gtgatcagag	gaattagata	120
tngtcttgaa	caccaatatt	aatttgagga	aaatacacca	aaatacatta	agtaaattat	180
ttaagatcat	agagcttgta	agtgaaaaga	taaaatttga	cctcagaaac	tctgagcatt	240
aaaaatccac	tattagcaaa	taaattacta	tggacttctt	gctttaattt	tgtgatgaat	300
atgggggtgc	actggtaaac	caacacattc	tgaaggatac	attacttagt	gatagattct	360
tatgtacttt	gctanatnac	gtggatatga	gttgacaagt	ttctctttct	tcaatctttt	420
aaggggcnga	ngaaatgagg	aagaaaagaa	aaggattacg	catactgttc	tttctatngg	480
aaggattaga	tatgtttcct	ttgccaatat	taaaaaata	ataatgttta	ctactagtga	540
aaccc						545

<210> 206
 <211> 487
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(487)
 <223> n = A,T,C or G

<400> 206

tttttttttt	tttttttagtc	aagtttctna	tttttattat	aattaaagtc	ttgggtcattt	60
catttattag	ctctgcaact	tacatattta	aattaaagaa	acgttnttag	acaactgtna	120
caatttataa	atgtaagggtg	ccattattga	gtanatatat	tcctccaaga	gtggatgtgt	180
cccttctccc	accaactaat	gaancagcaa	cattagttta	atttttattag	tagatnatac	240
actgctgcaa	acgctaattc	tcttctccat	ccccatgtng	atattgtgta	tatgtgtgag	300
ttggnagaa	tgcatcanca	atctnacaat	caacagcaag	atgaagctag	gcntgggctt	360
tcggtgaaaa	tagactgtgt	ctgtctgaat	caaatgatct	gacctatcct	cggtggcaag	420
aactcttcga	accgcttcct	caaaggcngc	tgccacattt	gtggcntctn	ttgcacttgt	480
ttcaaaa						487

<210> 207
 <211> 332
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(332)
 <223> n = A,T,C or G

<400> 207

tgaattggct	aaaagactgc	atTTTTanaa	ctagcaactc	ttatttcttt	cctttaaaaa	60
tacatagcat	taaatcccaa	atcctattta	aagacctgac	agcttgagaa	ggtcactact	120
gcatttatag	gaccttctgg	tggttctgct	gttaentttg	aantctgaca	atccttgana	180
atctttgcat	gcagaggagg	taaaagggtat	tggattttca	cagaggaana	acacagcgca	240
gaaatgaagg	ggccaggctt	actgagcttg	tccactggag	ggctcatggg	tgggacatgg	300
aaaagaaggc	agcctaggcc	ctggggagcc	ca			332

<210> 208

<211> 524

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(524)

<223> n = A,T,C or G

<400> 208

agggcgtggt	gcgaggggcg	ttactgtttt	gtctcagtaa	caataaatac	aaaaagactg	60
gttgtgttcc	ggcccatcc	aaccacgaag	ttgatttctc	ttgtgtgcag	agtgactgat	120
tttaaaggac	atggagcttg	tcacaatgtc	acaatgtcac	agtgtgaagg	gcacactcac	180
tccgcgtga	ttcacattta	gcaaccaaca	atagctcatg	agtccatact	tgtaaatact	240
tttggcagaa	tacttnttga	aacttgcaga	tgataactaa	gatccaagat	atttcccaaa	300
gtaaatagaa	gtgggtcata	atattaatta	cctgttcaca	tcagcttcca	tttacaagtc	360
atgagccag	acactgacat	caaactaagc	ccacttagac	tcctcaccac	cagtctgtcc	420
tgatcatcaga	caggaggctg	tcaccttgac	caaattctca	ccagtcaatc	atctatccaa	480
aaaccattac	ctgatccact	tccggtaatg	caccaccttg	gtga		524

<210> 209

<211> 159

<212> DNA

<213> Homo sapien

<400> 209

gggtgaggaa	atccagagtt	gccatggaga	aaattccagt	gtcagcattc	ttgtctcttg	60
tggccctctc	ctacactctg	gccagagata	ccacagtcaa	acctggagcc	aaaaaggaca	120
caaaggactc	tcgacccaaa	ctgcccaga	ccctctcca			159

<210> 210

<211> 256

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(256)

<223> n = A,T,C or G

<400> 210

actccctggc	agacaaaggc	agaggagaga	gctctgttag	ttctgtgttg	ttgaactgcc	60
actgaatttc	tttccacttg	gactattaca	tgccanttga	gggactaatg	gaaaaacgta	120
tggggagatt	ttanccaatt	tangtntgta	aatggggaga	ctggggcagg	cgggagagat	180

```

ttgcaggggtg naaatgggan ggctgggttg ttanatgaac agggacatag gaggtaggca 240
ccaggatgct aatca 256

```

```

<210> 211
<211> 264
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A,T,C or G

```

```

<400> 211
acattgtttt tttgagataa agcattgaga gagctctcct taacgtgaca caatggaagg 60
actggaacac ataccacat cttgttctg agggataatt ttctgataaa gtcttgctgt 120
atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gttaaggaga 180
ggggagatac attcngaaag aggactgaaa gaaataactca agtnggaaaa cagaaaaaga 240
aaaaaaggag caaatgagaa gcct 264

```

```

<210> 212
<211> 328
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G

```

```

<400> 212
acccaaaaat ccaatgctga atatttggt tcattattcc canattcttt gattgtcaaa 60
ggatttaatg ttgtctcagc ttgggcactt cagttaggac ctaaggatgc cagccggcag 120
gtttatataat gcagcaacaa tattcaagcg cgacaacagg ttattgaact tgcccggcag 180
ttnaatttca ttccattga cttgggatcc ttatcatcag ccagagagat tgaaaattta 240
cccctacnac tctttactct ctgganaggg ccagtgggtg tagctataag cttggccaca 300
tttttttttc cttttattcct ttgtcaga 328

```

```

<210> 213
<211> 250
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G

```

```

<400> 213
acttatgagc agagcgacat atccnagtgt agactgaata aaactgaatt ctctccagtt 60
taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120
cattatgcca aagganatat acatttcaat tctccaaact tcttcctcat tccaagagtt 180
ttcaatattt gcatgaacct gctgataanc catgttaana aacaaatata tctctnacct 240
tctcatcggt 250

```

<210> 214
 <211> 444
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(444)
 <223> n = A,T,C or G

<400> 214
 acccagaatc caatgctgaa tatttggctt cattattccc agattctttg attgtcaaag 60
 gatttaaatgt tgtctcagct tgggcacttc agttaggacc taaggatgcc agccggcagg 120
 tttatatatg cagcaacaat attcaagcgc gacaacagggt tattgaactt gcccgccagt 180
 tgaatttcat tcccattgac ttgggatcct tatcatcagc canagagatt gaaaatttac 240
 ccctacgact ctttactctc tggagagggc cagtgggtgg agctataagc ttggccacat 300
 ttttttttcc tttattcctt tgtcagagat gcgattcacc catatgctan aaaccaacag 360
 agtgactttt acaaaattcc tataganatt gtgaataaaa ccttacctat agttgccatt 420
 actttgctct ccctaataata cctc 444

<210> 215
 <211> 366
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(366)
 <223> n = A,T,C or G

<400> 215
 acttatgagc agagcgacat atccaagtgt anaactgaata aaactgaatt ctctccagtt 60
 taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120
 cattatgcca aagganatat acatttcaat tctccaaact tcttctcat tccaagagtt 180
 ttcaatatatt gcatgaacct gctgataagc catgttgaga aacaaatata tctctgacct 240
 tctcatcggt aagcagaggc tgtaggcaac atggaccata gcgaanaaaa aacttagtaa 300
 tccaagctgt tttctacact gtaaccagggt ttccaaccaa ggtggaaata tcctataact 360
 ggtgcc 366

<210> 216
 <211> 260
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(260)
 <223> n = A,T,C or G

<400> 216
 ctgtataaac agaactccac tgcangaggg agggccgggc caggagaatc tccgcttgct 60
 caagacaggg gcctaaggag ggtctccaca ctgctnntaa gggctnttnc atttttttat 120
 taataaaaag tnnaaaaggc ctcttctcaa cttttttccc ttnggctgga aaatttataa 180

atcaaaaatt tccrnaagtt ntcaagctat catatataact ntatcctgaa aaagcaacat 240
aattcttctt tccctccttt 260

<210> 217
<211> 262
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 217
acctacgtgg gtaagtttan aaatgttata atttcaggaa naggaacgca tataattgta 60
tcttgccat aattttctat tttaataagg aaatagcaaa ttgggggtggg gggaatgtag 120
ggcattctac agtttgagca aaatgcaatt aaatgtggaa ggacagcact gaaaaatttt 180
atgaataatc tgtatgatta tatgtctcta gagtagattt ataattagcc acttacccta 240
atatccttca tgcttgtaaa gt 262

<210> 218
<211> 205
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(205)
<223> n = A,T,C or G

<400> 218
accaaggtgg tgcattaccg gaantggatc aangacacca tcgtggccaa cccctgagca 60
cccctatcaa ctcccttttg tagtaaaactt ggaaccttgg aaatgaccag gccaaagactc 120
aggcctcccc agttctactg acctttgtcc ttangtntna ngccagggt tgctaggaaa 180
anaaatcagc agacacaggt gtaaa 205

<210> 219
<211> 114
<212> DNA
<213> Homo sapien

<400> 219
tactgttttg tctcagtaac aataaatata aaaagactgg ttgtgttccg gccccatcca 60
accacgaagt tgatttctct tgtgtgcaga gtgactgatt ttaaaggaca tgga 114

<210> 220
<211> 93
<212> DNA
<213> Homo sapien

<400> 220
actagccagc acaaaaaggca gggtagcctg aattgctttc tgctctttac atttctttta 60
aaataagcat ttagtgctca gtccctactg agt 93

<210> 221
 <211> 167
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(167)
 <223> n = A,T,C or G

<400> 221
 actangtgca ggtgcgcaca aatatttgct gatattccct tcattcttga ttccatgagg 60
 tcttttgccc agcctgtggc tctactgtag taagtctctg ctgatgagga gccagnatgc 120
 cccccactac ctccctgac gtcgccana aatcacccaa cctctgt 167

<210> 222
 <211> 351
 <212> DNA
 <213> Homo sapien

<400> 222
 agggcgtggt ggggagggcg gtactgacct cattagtagg aggatgcatt ctggcacccc 60
 gttcttcacc tgtcccccaa tccttaaaag gccatactgc ataaagtcaa caacagataa 120
 atgtttgctg aattaaagga tggatgaaaa aaattaataa tgaatttttg cataatccaa 180
 tttctctttt tatatttcta gaagaagttt ctttgagcct attagatccc gggaatcttt 240
 taggtgagca tgattagaga gcttgtaggt tgcttttaca tatatctggc atatttgagt 300
 ctctgatcaa aacaatagat tggtaaaggt ggtattattg tattgataag t 351

<210> 223
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 223
 aaaacaaaca aacaaaaaaa acaattcttc attcagaaaa attatcttag ggactgatat 60
 tggttaattat ggtcaattta atwrtrttkt ggggcatttc cttacattgt cttgacaaga 120
 ttaaaatgtc tgtgccaaaa ttttgatatt tatttgaga cttcttatca aaagtaatgc 180
 tgccaaagga agtctaagga attagtagtg ttcccmtcac ttgtttggag tgtgctattc 240
 taaaagattt tgatttcctg gaatgacaat tatattttta ctttggtggg ggaaanagtt 300
 ataggaccac agtccttact tctgatactt gtaaattaat cttttattgc acttgttttg 360
 accattaagc tatatgttta aaa 383

<210> 224
 <211> 320
 <212> DNA
 <213> Homo sapien

<400> 224
 cccctgaagg cttcttggtta gaaaatagta cagttacaac caataggaac aacaaaaaga 60

aaaagtttgt	gacattgtag	tagggagtgt	gtacccctta	ctcccatca	aaaaaaaaat	120
ggatacatgg	ttaaaggata	raagggcaat	attttatcat	atgttctaaa	agagaaggaa	180
gagaaaatac	tactttctcr	aaatggaagc	ccttaaagggt	gctttgatac	tgaaggacac	240
aaatgtggcc	gtccatcctc	ctttaragtt	gcattgacttg	gacacggtaa	ctgttgacgt	300
tttaractcm	gcattgtgac					320

<210> 225

<211> 1214

<212> DNA

<213> Homo sapien

<400> 225

gaggactgca	gcccgcactc	gcagccctgg	caggcggcac	tggtcatgga	aaacgaattg	60
ttctgctcgg	gagtcctggg	gcatccgcag	tggtgctgtg	cagccgcaca	ctgtttccag	120
aactcctaca	ccatcgggct	ggcctgcac	agtcttgagg	ccgaccaaga	gccagggagc	180
cagatggtgg	aggccagcct	ctccgtacgg	cacccagagt	acaacagacc	cttgctcgct	240
aacgacctca	tgctcatcaa	gttgacgaa	tccgtgtccg	agtctgacac	catccggagc	300
atcagcattg	cttcgcagtg	ccctaccgcg	gggaactctt	gcctcgtttc	tggtgggggt	360
ctgctggcga	acggcagaat	gcctaccgtg	ctgcagtgcg	tgaacgtgtc	ggtggtgtct	420
gaggaggtct	gcagtaagct	ctatgaccgg	ctgtaccacc	ccagcatgtt	ctgcgccggc	480
ggagggcaag	accagaagga	ctcctgcaac	ggtgactctg	gggggcccct	gatctgcaac	540
gggtacttgc	agggccttgt	gtctttcgga	aaagccccgt	gtggccaagt	tggtcggtcca	600
ggtgtctaca	ccaacctctg	caaattcact	gagtgatag	agaaaaccgt	ccaggccagt	660
taactctggg	gactgggaac	ccatgaaatt	gacccccaaa	tacatcctgc	ggaaggaatt	720
caggaatata	tggtcccgag	ccctcctccc	tcaggcccag	gagtcagggc	ccccagcccc	780
tcctccctca	aaccaagggt	acagatcccc	agccccctct	ccctcagacc	caggagtcca	840
gacccccag	cccctcctcc	ctcagaccca	ggagtccagc	ccctcctccc	tcagacccag	900
gagtcagac	ccccagccc	ctcctccctc	agacccaggg	gtccaggccc	ccaacccctc	960
ctccctcaga	ctcagaggtc	caagccccca	acccctcctt	ccccagaccc	agaggtccag	1020
gtcccagccc	ctcctccctc	agacccagcg	gtccaatgcc	acctagactc	tcctgttaca	1080
cagtgcctcc	ttgtggcaag	ttgacccaac	cttaccagtt	ggtttttcat	ttttgtccc	1140
tttcccttag	atccagaaat	aaagtctaag	agaagcgcaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaa					1214

<210> 226

<211> 119

<212> DNA

<213> Homo sapien

<400> 226

acccagtatg	tgacgggaga	cggaacccca	tgtgacagcc	cactccacca	gggttcccaa	60
agaacctggc	ccagtcataa	tcattcoatcc	tgacagtggc	aataatcacg	ataaccagt	119

<210> 227

<211> 818

<212> DNA

<213> Homo sapien

<400> 227

acaattcata	gggacgacca	atgaggacag	ggaatgaacc	cggctctccc	ccagccctga	60
tttttgctac	atatggggtc	ccttttcatt	ctttgcaaaa	acactgggtt	ttctgagaac	120
acggacgggt	cttagcacia	tttgtgaaat	ctgtgtaraa	ccgggctttg	caggggagat	180
aattttcctc	ctctggagga	aagggtggtga	ttgacaggca	gggagacagt	gacaaggcta	240
gagaaagcca	cgctcggcct	tctctgaacc	aggatggaac	ggcagacccc	tgaaaacgaa	300

gcttgtcccc	ttccaatcag	ccacttctga	gaacccccat	ctaacttcct	actggaaaag	360
agggcctcct	caggagcagt	ccaagagttt	tcaaagataa	cgtgacaact	accatctaga	420
ggaaagggtg	caccctcagc	agagaagccg	agagcttaac	tctggtcggt	tccagagaca	480
acctgctggc	tgtcttggga	tgcgccagc	ctttgagagg	ccactacccc	atgaacttct	540
gccatccact	ggacatgaag	ctgaggacac	tgggcttcaa	cactgagttg	tcatgagagg	600
gacaggctct	gccctcaagc	cggctgaggg	cagcaaccac	tctcctcccc	tttctcacgc	660
aaagccattc	ccacaaatcc	agaccatacc	atgaagcaac	gagacccaaa	cagtttggct	720
caagaggata	tgaggactgt	ctcagcctgg	ctttgggctg	acaccatgca	cacacacaag	780
gtccacttct	agggttttcag	cctagatggg	agtcgtgt			818

<210> 228

<211> 744

<212> DNA

<213> Homo sapien

<400> 228

actggagaca	ctgttgaact	tgatcaagac	ccagaccacc	ccaggtctcc	ttcgtgggat	60
gtcatgacgt	ttgacatacc	tttggaaaga	gcctcctcct	tggagatgg	aagaccgtgt	120
tctgtggcga	cctggcctct	cctggcctgt	ttcttaagat	gcggagtcac	atttcaatgg	180
taggaaaagt	ggcttcgtaa	aatagaagag	cagtcactgt	ggaactacca	aatggcgaga	240
tgctcgggtc	acattggggg	gctttgggat	aaaagattta	tgagccaact	attctctggc	300
accagattct	aggccagttt	gttccactga	agcttttccc	acagcagtcc	acctctgcag	360
gctggcagct	gaatggcctt	cgggtggctc	tgtggcaaga	tcacactgag	atcgatgggt	420
gagaaggcta	ggatgcttgt	ctagtgttct	tagctgtcac	gttggctcct	tccaggttgg	480
ccagacggtg	ttggccactc	ccttctaaaa	cacaggcgcc	ctcctggtga	cagtgacccg	540
ccgtgggtat	ccttggccca	ttccagcagt	cccagttatg	catttcaagt	ttgggggttg	600
ttcttttctg	taatgttctt	ctgtgttgtc	agctgtcttc	atttctggg	ctaagcagca	660
ttgggagatg	tggaccagag	atccactcct	taagaaccag	tggcgaaaga	cactttcttt	720
cttcactctg	aagtagctgg	tgggt				744

<210> 229

<211> 300

<212> DNA

<213> Homo sapien

<400> 229

cgagtctggg	ttttgtctat	aaagtttgat	ccctcctttt	ctcatccaaa	tcatgtgaac	60
cattacacat	cgaaataaaa	gaaagggtgg	agacttgccc	aacgccaggc	tgacatgtgc	120
tgcagggttg	ttgtttttta	attattattg	ttagaaacgt	caccacacag	ccctgttaat	180
ttgtatgtga	cagccaactc	tgagaaggtc	ctatttttcc	acctgcagag	gatccagtct	240
cactaggctc	ctccttgccc	tcacactgga	gtctccgcca	gtgtgggtgc	ccactgacat	300

<210> 230

<211> 301

<212> DNA

<213> Homo sapien

<400> 230

cagcagaaca	aatacaaaata	tgaagagtgc	aaagatctca	taaaatctat	gctgaggaat	60
gagcgacagt	tcaaggagga	gaagcttgca	gagcagctca	agcaagctga	ggagctcagg	120
caatataaag	tcctggttca	cactcaggaa	cgagagctga	cccagttaag	ggagaagttg	180
cgggaaggga	gagatgcctc	cctctcattg	aatgagcatc	tccaggccct	cctcactccg	240
gatgaaccgg	acaagtccca	ggggcaggac	ctccaagaaa	cagacctcgg	ccgcgaccac	300
g						301

<210> 231
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 231

gcaagcacgc	tggaacatct	ctgtcagggtc	agctccagag	aagccattag	tcatttttagc	60
caggaactcc	aagtccacat	ccttggcaac	tggggacttg	cgcaggttag	ccttgaggat	120
ggcaacacgg	gacttctcat	caggaagtgg	gatgtagatg	agctgatcaa	gacggccagg	180
tctgaggatg	gcaggatcaa	tgatgtcagg	ccggttggtg	ccgccaatga	tgaacacatt	240
tttttttgtg	gacatgccat	ccattttctgt	caggatctgg	ttgatgactc	ggtcagcagc	300
c						301

<210> 232
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 232

agtaggtatt	tcgtgagaag	ttcaacacca	aaactggaac	atagttctcc	ttcaagtgtt	60
ggcgacagcg	gggcttcctg	attctggaat	ataactttgt	gtaaattaac	agccacctat	120
agaagagtcc	atctgctgtg	aaggagagac	agagaactct	gggttccgtc	gtcctgtcca	180
cgtgctgtac	caagtgtctg	tgccagcctg	ttacctgttc	tactgaaaa	tctggctaata	240
gctcttgtgt	atcacttctg	attctgacaa	tcaatcaatc	aatggcctag	agcactgact	300
g						301

<210> 233
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 233

atgactgact	tcccagtaag	gctctctaag	gggtaagtag	gaggatccac	aggatttgag	60
atgctaaggc	cccagagatc	gtttgatcca	accctcttat	tttcagaggg	gaaaatgggg	120
cctagaagtt	acagagcatc	tagctggtgc	gctggcaccc	ctggcctcac	acagactccc	180
gagtagctgg	gactacaggc	acacagtcac	tgaagcaggc	cctgttagca	attctatgcg	240
tacaaattaa	catgagatga	gtagagactt	tattgagaaa	gcaagagaaa	atcctatcaa	300
c						301

<210> 234
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 234

aggctctaca	catcgagact	catccatgat	tgatatgaat	ttaaaaatta	caagcaaaga	60
cattttattc	atcatgatgc	tttcttttgt	ttcttctttt	cgttttcttc	tttttctttt	120
tcaatttcag	caacatactt	ctcaatttct	tcaggattta	aaatcttgag	ggattgatct	180
cgctcatga	cagcaagttc	aatgtttttg	ccacctgact	gaaccacttc	caggagtgcc	240
ttgatcacca	gcttaatggt	cagatcatct	gcttcaatgg	cttcgtcagt	atagttcttc	300
t						301

<210> 235

<211> 283
 <212> DNA
 <213> Homo sapien

<400> 235
 tggggctgtg catcaggcgg gtttgagaaa tattcaattc tcagcagaag ccagaatttg 60
 aattccctca tcttttaggg aatcatttac caggtttgga gaggattcag acagctcagg 120
 tgctttcact aatgtctctg aacttctgtc cctctttgtt catggatagt ccaataaata 180
 atgttatctt tgaactgatg ctcataggag agaataaag aactctgagt gatatcaaca 240
 ttagggattc aaagaaatat tagatttaag ctcacactgg tca 283

<210> 236
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 236
 aggtcctcca ccaactgcct gaagcacggt taaaattggg aagaagtata gtgcagcata 60
 aatactttta aatcgatcag atttccctaa cccacatgca atcttcttca ccagaagagg 120
 tcggagcagc atcattaata ccaagcagaa tgcgtaatag ataaatacaa tggatatatag 180
 tgggtagacg gcttcatgag tacagtgtac tgtggtatcg taatctggac ttgggttgta 240
 aagcatcgtg taccagtcag aaagcatcaa tactcgacat gaacgaatat aaagaacacc 300
 a 301

<210> 237
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 237
 cagtggtagt ggtggtggac gtggcggttg tcgtggtgcc ttttttggtg ccggtcacaa 60
 actcaatttt tgttcgctcc tttttggcct tttccaattt gtccatctca attttctggg 120
 ccttggtctaa tgctcatag taggagtcct cagaccagcc atggggatca aacatatact 180
 ttgggtagtt ggtgccaagc tcgtcaatgg cacagaatgg atcagcttct cgtaaatcta 240
 gggttccgaa attctttctt cctttggata atgtagttca tatccattcc ctccctttatc 300
 t 301

<210> 238
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 238
 gggcagggtt tttttttttt ttttttgatg gtgcagaccc ttgctttatt tgtctgactt 60
 gttcacagtt cagccccctg ctcagaaaac caacgggcca gctaaggaga ggaggaggca 120
 ccttgagact tccggagtcg aggtctcca ggggtcccca gcccatcaat cattttctgc 180
 accccctgcc tgggaagcag ctccctgggg ggtgggaatg ggtgactaga agggatttca 240
 gtgtgggacc cagggtctgt tcttcacagt aggaggtgga agggatgact aatttcttta 300
 t 301

<210> 239
 <211> 239
 <212> DNA
 <213> Homo sapien

<400> 239
 ataagcagct aggggaattct ttatttagta atgtcctaac ataaaagtgc acataactgc 60
 ttctgtcaaa ccatgatact gagctttgtg acaacccaga aataactaag agaaggcaaa 120
 cataatacct tagagatcaa gaaacattta cacagttcaa ctgtttaaaa atagctcaac 180
 attcagccag tgagtagagt gtgaatgcc a gcatacacag tatacaggtc cttcaggga 239

<210> 240
 <211> 300
 <212> DNA
 <213> Homo sapien

<400> 240
 ggctctaagt aagcagcagc ttccacattt taacgcaggt ttacggtgat actgtccttt 60
 gggatctgcc ctccagtga accttttaag gaagaagtgg gcccaagcta agttccacat 120
 gctgggtgag ccagatgact tctgttccct ggtcactttc ttcaatgggg cgaatggggg 180
 ctgccaggtt tttaaaatca tgcttcactt tgaagcacac ggtcacttca ccctcctcac 240
 gctgtgggtg tactttgatg aaaataccca ctttgtttggc ctttctgaag ctataatgtc 300

<210> 241
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 241
 gaggtctggt gctgaggtct ctgggctagg aagaggagtt ctgtggagct ggaagccaga 60
 cctcttttga ggaaactcca gcagctatgt tgggtgtctct gagggaatgc aacaaggctg 120
 ctctctcatg tattggaaaa ctgcaaactg gactcaactg gaaggaagtg ctgctgccag 180
 tgtgaagaac cagctgaggt tgacagaaac ggaagcaaac aggaacagcc agtcttttct 240
 tcctcctcct gtcatacggg ctctctcaag catcctttgt tgtcaggggc ctaaaaggga 300
 g 301

<210> 242
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 242
 ccgaggtcct gggatgcaac caatcactct gtttcacgtg acttttatca ccatacaatt 60
 tgtggcattt cctcattttc tacattgtag aatcaagagt gtaaataaat gtatatcgat 120
 gtcttcaaga atatatcatt cctttttcac tagaaccat tcaaaatata agtcaagaat 180
 cttaatatca acaaatatat caagcaaact ggaaggcaga ataactacca taatttagta 240
 taagtaccca aagttttata aatcaaaagc cctaagtata accattttta gaattcaatc 300
 a 301

<210> 243
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 243
 aggtaagtcc cagtttgaag ctcaaaagat ctggatatgag cataggctca tcgacgacat 60
 ggtggcccaa gctatgaaat cagagggagg cttcatctgg gcctgtaaaa actatgatgg 120
 tgacgtgcag tcggactctg tggcccaagg gtatggctct ctcggcatga tgaccagcgt 180

<210> 248
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 248

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aggtccttgg agatgccatt tcagccgaag gactcttctw ttcggaagta caccctcact      60
attaggaaga ttcttagggg taatttttct gaggaaggag aactagccaa cttagaatt      120
acaggaagaa agtgggtttg aagacagcca aagaaataaa agcagattaa attgtatcag      180
gtacattcca gcctgttggc aactccataa aaacatttca gattttaatc ccgaatttag      240
ctaagagac  tggatttttg ttttttatgt tgtgtgtcgc agagctaaaa actcagttcc      300
c                                                    301

```

<210> 249
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 249

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gtccagagga agcacctggt gctgaactag gcttgccctg ctgtgaactt gcacttggag      60
ccctgacgct gctgttctcc ccgaaaaacc cgaccgacct ccgcgatctc cgtcccgccc      120
ccaggagagac acagcagtga ctacagagctg gtgcacacct gtgcctccct cctcaccgcc      180
catcgtaatg aattattttg aaaattaatt ccaccatcct ttcagattct ggatggaaag      240
actgaatctt tgactcagaa ttgtttgctg aaaagaatga tgtgactttc ttagtcattt      300
a                                                    301

```

<210> 250
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 250

```

ggtctgtgac aaggacttgc aggtctgtggg aggcaagtga cccttaacac tacacttctc      60
cttatcttta ttggcttgat aaacataatt atttctaaca ctagcttatt tccagttgcc      120
cataagcaca tcagtacttt tctctggctg gaatagtaaa ctaaagtatg gtacatctac      180
ctaaaagact actatgtgga ataatacata ctaatgaagt attacatgat ttaaagacta      240
caataaaacc aaacatgctt ataacattaa gaaaaacaat aaagatacat gattgaaacc      300
a                                                    301

```

<210> 251
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 251

```

gccgaggtcc tacatttggc ccagtttccc cctgcatacct ctccagggcc cctgcctcat      60
agacaacctc atagagcata ggagaactgg ttgccctggg ggcaggggga ctgtctggat      120
ggcaggggtc ctcaaaaatg ccactgtcac tgccaggaaa tgcttctgag cagtacacct      180
cattgggatc aatgaaaagc ttcaagaaat cttcaggctc actctcttga aggcccgaa      240
cctctggagg ggggcagtgg aatcccagct ccaggacgga tcctgtcgaa aagatatacct      300
c                                                    301

```

<210> 252

<211> 301
 <212> DNA
 <213> Homo sapien

<400> 252

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gcaaccaatc actctgtttc acgtgacttt tatcaccata caatttgtgg catttcctca    60
ttttctacat tgtagaatca agagtgtaaa taaatgtata tcgatgtctt caagaatata    120
tcatttccttt ttcactagga acccattcaa aatataagtc aagaatctta atatcaacaa    180
atatatcaag caaactggaa ggcagaataa ctaccataat ttagtataag tacccaaagt    240
tttataaatc aaaagcccta atgataacca tttttagaat tcaatcatca ctgtagaatc    300
a                                                                    301

```

<210> 253
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 253

```

ttccctaaga agatgttatt ttgttgagggt ttgttccccc tccatctcga ttctcgtacc    60
caactaaaaa aaaaaaataa agaaaaaatg tgctgcgttc tgaaaaataa ctcttagct    120
tggtctgatt gttttcagac cttaaaatat aaacttgttt cacaagcttt aatccatgtg    180
gatttttttt cttagagaac cacaaaacat aaaaggagca agtcggactg aatacctgtt    240
tccatagtgc ccacagggta ttctcacat tttctccata ggaaaatgct ttttcccaag    300
g                                                                    301

```

<210> 254
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 254

```

cgctgcgcct ttcccttggg ggagggggcaa ggccagaggg ggtccaagtg cagcacgagg    60
aacttgacca attcccttga agcgggtggg ttaaaccctg taaatgggaa caaaatcccc    120
ccaaatctct tcatcttacc ctggtggact cctgactgta gaattttttg gttgaaacaa    180
gaaaaaataa aagcttttga cttttcaagg ttgcttaaca ggtactgaaa gactggcctc    240
acttaaaactg agccaggaaa agctgcagat ttattaatgg gtgtgttagt gtgcagtgcc    300
t                                                                    301

```

<210> 255
 <211> 302
 <212> DNA
 <213> Homo sapien

<400> 255

```

agcttttttt tttttttttt tttttttttt ttcattaaaa aatagtgtct tttattataa    60
attactgaaa tgtttctttt ctgaatataa atataaatat gtgcaaagtt tgacttgat    120
tggtgatttt ttgagttctt caagcatctc ctaataccct caagggcctg agtagggggg    180
aggaaaaagg actggagggt gaatctttat aaaaaacaag agtgattgag gcagattgta    240
aacattatta aaaaacaaga aacaaacaaa aaaatagaga aaaaaaccac cccaacacac    300
aa                                                                    302

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<210> 256
 <211> 301
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 256

gttccagaaa	acattgaagg	tggcttccca	aagtctaact	agggataccc	cctctagcct	60
aggaccctoc	tccccacacc	tcaatccacc	aaaccatcca	taatgcaccc	agataggccc	120
acccccaaaa	gcctggacac	cttgagcaca	cagttatgac	caggacagac	tcctctctat	180
aggcaaatag	ctgctggcaa	actggcatta	cctggtttgt	ggggatgggg	gggcaagtgt	240
gtggcctctc	ggcctggtta	gcaagaacat	tcagggtagg	cctaagttaa	tcgtgttagt	300
t						301

<210> 257

<211> 301

<212> DNA

<213> Homo sapien

<400> 257

gttgtggagg	aactctggct	tgctcattaa	gtcctactga	ttttcactat	cccctgaatt	60
tccccactta	tttttgtctt	tcactatcgc	aggccttaga	agaggtctac	ctgcctccag	120
tcttacctag	tccagtctac	cccctggagt	tagaatggcc	atcctgaagt	gaaaagtaat	180
gtcacattac	tcccttcagt	gatttcttgt	agaagtgcc	atccctgaat	gccaccaaga	240
tottaatctt	cacatcttta	atcttatctc	tttgactcct	ctttacaccg	gagaaggctc	300
c						301

<210> 258

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 258

cagcagtagt	agatgccgta	tgccagcacg	cccagcactc	ccaggatcag	caccagcacc	60
aggggcccag	ccaccaggcg	cagaagcaag	ataaacagta	ggctcaagac	cagagccacc	120
cccaggggcaa	caagaatcca	ataccaggac	tgggcaaaat	cttcaaagat	cttaacactg	180
atgtctcggg	cattgaggct	gtcaataana	cgctgatccc	ctgctgtatg	gtggtgtcat	240
tggatgatccc	tgggagcgcc	ggtggagtaa	cgttggtcca	tggaaagcag	cgcccacaac	300
t						301

<210> 259

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 259

tcatatatgc	aaacaaatgc	agactangcc	tcaggcagag	actaaaggac	atctcttggg	60
gtgtcctgaa	gtgatttgga	cccctgaggg	cagacaccta	agtaggaatc	ccagtgggaa	120
gcaaagccat	aaggaagccc	aggattcctt	gtgatcagga	agtgggccag	gaaggctctgt	180
tccagctcac	atctcatctg	catgcagcac	ggaccggatg	cgcccactgg	gtcttggctt	240
ccctcccatc	ttctcaagca	gtgtccttgt	tgagccattt	gcataccttg	ctccaggtgg	300
c						301

<210> 260

<211> 301

<212> DNA

<213> Homo sapien

<400> 260

ttttttttct	ccctaaggaa	aaagaaggaa	caagtctcat	aaaaccaa	aagcaatggt	60
aagggtgtctt	aacttgaaaa	agattaggag	tcactggttt	acaagttata	attgaatgaa	120
agaactgtaa	cagccacagt	tggccatttc	atgccaatgg	cagcaaaca	caggattaac	180
tagggcaaaa	taaataagtg	tgtggaagcc	ctgataagtg	cttaataaac	agactgattc	240
actgagacat	cagtacctgc	ccgggcggcc	gctcgagccg	aattctgcag	atatccatca	300
c						301

<210> 261

<211> 301

<212> DNA

<213> Homo sapien

<400> 261

aaatattoga	gcaaatacctg	taactaatgt	gtctccataa	aaggctttga	actcagtga	60
tctgcttoca	tccacgattc	tagcaatgac	ctctcggaca	tcaaagctcc	tcttaagggtt	120
agcaccaact	attccataca	attcatcagc	aggaaataaa	ggctcttcag	aagggttcaat	180
ggtgacatcc	aattttcttct	gataatcttag	attcctcaca	accttcctag	ttaagtgaag	240
ggcatgatga	tcattccaaag	cccagtgggtc	acttactcca	gactttctgc	aatgaagatc	300
a						301

<210> 262

<211> 301

<212> DNA

<213> Homo sapien

<400> 262

gaggagagcc	tgttacagca	tttgtaagca	cagaatactc	caggagtatt	tgtaattgtc	60
tgtgagcttc	ttgccgcaag	tctctcagaa	atttaaaaag	atgcaaatacc	ctgagtcacc	120
cctagacttc	ctaaaccaga	tcctctgggg	ctggaacctg	gcactctgca	tttgtaatga	180
gggctttctg	gtgcacacct	aattttgtgc	atctttgccc	taaatcctgg	attagtgtccc	240
catcattacc	cccacattat	aatgggatag	attcagagca	gatactctcc	agcaaagaat	300
c						301

<210> 263

<211> 301

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 263

tttagcttgt	ggtaaagtac	tcacaaaact	gattttaaaa	tcaagttaat	gtgaattttg	60
aaaattacta	cttaaatccta	attcacaata	acaatggcat	taaggtttga	cttgagttgg	120
ttcttagtat	tatttatggg	aaataggctc	ttaccacttg	caaataactg	gccacatcat	180
taatgactga	cttcccagta	aggctctcta	aggggtaagt	angaggatcc	acaggatttg	240
agatgctaag	gccccagaga	tcgtttgatc	caacctctct	attttcagag	gggaaaatgg	300
g						301

<210> 264
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 264

aaagacgtta	aaccactcta	ctaccacttg	tggaactctc	aaagggtaaa	tgacaaascc	60
aatgaatgac	tctaaaaaca	atattttacat	ttaatggttt	gtagacaata	aaaaaacaag	120
gtggatagat	ctagaattgt	aacattttta	gaaaaccata	scatttgaca	gatgagaaa	180
ctcaattata	gatgcaaagt	tataactaaa	ctactatagt	agtaaagaaa	tacatttcac	240
acccttcata	taaattcact	atcttggtct	gaggcactcc	ataaaatgta	tcacgtgcat	300
a						301

<210> 265
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 265

tgoccaaagt	atgtgtaagt	gtatccgcac	ccagaggtaa	aactacactg	tcattctttgt	60
cttcttgtga	cgcagtattt	cttctctggg	gagaagccgg	gaagtcttct	cctggctcta	120
catattcttg	gaagtctcta	atcaactttt	gttccatttg	tttcatttct	tcaggagggg	180
ttttcagttt	gtcaacatgt	tctctaacaa	cacttgccca	tttctgtaaa	gaatccaaag	240
cagtccaagg	ctttgacatg	tcaacaacca	gcataactag	agtatccttc	agagatacgg	300
c						301

<210> 266
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 266

taccgtctgc	ccttcctccc	atccaggcca	tctgcgaatc	tacatgggtc	ctcctattcg	60
acaccagatc	actctttcct	ctaccacacag	gcttgctatg	agcaagagac	acaacctcct	120
ctcttctgtg	ttccagcttc	ttttcctgtt	cttcccaccc	cttaagttct	attcctgggg	180
atagagacac	caatacccat	aacctctctc	ctaagcctcc	ttataaccca	gggtgcacag	240
cacagactcc	tgacaactgg	taaggccaat	gaactgggag	ctcacagctg	gctgtgcctg	300
a						301

<210> 267
 <211> 301

<212> DNA

<213> Homo sapien

<400> 267

aaagagcaca	ggccagctca	gcctgccctg	gccatctaga	ctcagcctgg	ctccatgggg	60
gttctcagt	ctgagtcct	ccaggaaaag	ctcacctaga	ccttctgagg	ctgaatcttc	120
atcctcacag	gcagcttctg	agagcctgat	attcctagcc	ttgatggct	ggagtaaagc	180
ctcattctga	ttcctctcct	tcttttcttt	caagttggct	ttcctcacat	ccctctgttc	240
aattcgcttc	agcttgtctg	ctttagccct	catttccaga	agcttcttct	ctttggcatc	300
t						301

<210> 268

<211> 301

<212> DNA

<213> Homo sapien

<400> 268

aatgtctcac	tcaactactt	cccagcctac	cgtggcctaa	ttctgggagt	tttcttctta	60
gatcttggga	gagctggttc	ttctaaggag	aaggaggaag	gacagatgta	actttggatc	120
tcgaagagga	agtctaattg	aagtaattag	tcaacggctc	ttgttttagac	tcttgggaata	180
tgctgggtgg	ctcagtgagc	ccttttggag	aaagcaagta	ttattcttaa	ggagtaacca	240
cttccattg	ttctactttc	taccatcatc	aattgtatat	tatgtattct	ttggagaact	300
a						301

<210> 269

<211> 301

<212> DNA

<213> Homo sapien

<400> 269

taacaatata	cactagctat	ctttttaact	gtccatcatt	agcaccaatg	aagattcaat	60
aaaattacct	ttattcacac	atctcaaaac	aattctgcaa	attcttagtg	aagtttaact	120
atagtcacag	acottaaata	ttcacattgt	tttctatgtc	tactgaaaat	aagttcacta	180
cttttctgga	tattctttac	aaaatcttat	taaaattcct	ggtattatca	cccccaatta	240
tacagtagca	caaccacctt	atgtagtttt	tacatgatag	ctctgtagaa	gtttcacatc	300
t						301

<210> 270

<211> 301

<212> DNA

<213> Homo sapien

<400> 270

cattgaagag	cttttgcgaa	acatcagaac	acaagtgcct	ataaaattaa	ttaagcctta	60
cacaagaata	catattcctt	ttatttctaa	ggagttaaac	atagatgtag	ctgatgtgga	120
gagcttgctg	gtgcagtgca	tattggataa	cactattcat	ggccgaattg	atcaagtcaa	180
ccaactcctt	gaactggatc	atcagaagaa	gggtgggtgca	cgatatactg	cactagataa	240
tggaccaacc	aactaaattc	tctcaccagg	ctgtatcagt	aaactggctt	aacagaaaac	300
a						301

<210> 271

<211> 301

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 271
 aaaaggttct cataagatta acaattttaa taaatatttg atagaacatt ctttctcatt 60
 ttatagctc atcttttagg ttgatattca gttcatgctt cccttgctgt tcttgatcca 120
 gaattgcaat cacttcatca gcctgtattc gctccaattc tctataaagt gggccaagg 180
 tgaaccacag agccacagca cacctctttc ccttggtgac tgccttcacc ccatganggt 240
 tctctcctcc agatganaac tgatcatgcg cccacatttt gggttttata gaagcagtc 300
 c 301

<210> 272
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 272
 taaattgcta agccacagat aacaccaatc aaatggaaca aatcactgtc ttcaaagtgc 60
 ttatcagaaa accaaatgag cctggaatct tcataatacc taaacatgcc gtatttagga 120
 tccaataatt cctcatgat gagcaagaaa aattctttgc gcacccctcc tgcattccaca 180
 gcatcttctc caacaaatat aaccttgagt ggcttcttgt aatctatgtt ctttgttttc 240
 ctaaggactt ccattgcac tcctacaata ttttctctac gcaccactag aattaagcag 300
 g 301

<210> 273
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 273
 acatgtgtgt atgtgtatct ttgggaaaa aanaagacat cttgtttayt atttttttgg 60
 agagangctg ggacatggat aatcacwtaa tttgctayta tyactttaat ctgactygaa 120
 gaaccgtcta aaaataaaat ttaccatgtc dtatattcct tatagtatgc ttatttcacc 180
 ttytttctgt ccagagagag tatcagtgc ananatttma ggggaamac atgmattggg 240
 gggacttnty tttacngagm accctgccc sgccgcccgc makcngantt ccgcsananc 300
 t 301

<210> 274
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 274

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cttatataact ctttctcaga ggcaaaagag gagatgggta atgtagacaa ttctttgagg      60
aacagtaaatt gattattaga gagaangaat ggaccaagga gacagaaatt aacttgtaaa      120
tgattctctt  tggaatctga atgagatcaa gagggccagct ttagcttggtg gaaaagtcca      180
tctagggtatg gttgcattct cgtcttcttt tctgcagtag ataatgaggt aaccgaaggc      240
aattgtgctt  cttttgataa gaagctttct  tggatcatatc aggaaattcc aganaaagtc      300
c                                          301

```

<210> 275

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 275

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tcggtgtcag cagcacgtgg cattgaacat tgcaatgtgg agcccaaacc acagaaaatg      60
gggtgaaaatt ggccaacttt ctattaactt atgtttggcaa ttttgccacc aacagtaagc      120
tggcccttct  aataaaagaa aattgaaagg tttctcacta aacggaatta agtagtggag      180
tcaagagact  cccaggcctc agcgtacctg cccggggcggc cgctcgaagc cgaattctgc      240
agatatccat  cacactggcg gncgctcgan catgcatcta gaaggnccaa ttcgccctat      300
a                                          301

```

<210> 276

<211> 301

<212> DNA

<213> Homo sapien

<400> 276

```

tgtacacata ctcaataaat aaatgactgc atttgtggtat tattactata ctgattatat      60
ttatcatgtg acttctaatt agaaaatgta tccaaaagca aaacagcaga tatacaaaat      120
taaagagaca gaagatagac attaacagat aaggcaactt atacattgag aatccaaatc      180
caatacattt  aaacatttgg gaaatgaggg ggacaaatgg aagccagatc aaatttgtgt      240
aaaactattc  agtatgtttc ccttgcttca tgtctgagaa ggctctcctt caatggggat      300
g                                          301

```

<210> 277

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 277

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tttgitgatg tcagtatttt attacttgcg ttatgagtgc tcacctggga aattctaaag      60
atacagagga cttggaggaa gcagagcaac tgaatttaat ttaaaagaag gaaaacattg      120
gaatcatggc actcctgata ctttcccaaa tcaacactct caatgccccca ccctcgtcct      180

```

caccatagtg gggagactaa agtggccacg gatttgcctt angtgtgcag tgcgttctga 240
gttcnctgtc gattacatct gaccagtctc ctttttccga agtccttccg ttcaatcttg 300
c 301

<210> 278
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

<400> 278
taccactaca ctccagcctg ggcaacagag caagacctgt ctcaaagcat aaaatggaat 60
aacatatcaa atgaaacagg gaaaatgaag ctgacaattt atggaagcca gggcttgtca 120
cagtctctac tgttattatg cattacctgg gaatttatat aagcccttaa taataatgcc 180
aatgaacatc tcatgtgtgc tcacaatggt ctggcactat tataagtgtc tcacagggtt 240
tatgtgttct tcgtaacttt atggantagg tactcggccg cgaacacgct aagccgaatt 300
c 301

<210> 279
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

<400> 279
aaagcaggaa tgacaaagct tgcttttctg gtatgttcta ggtgtattgt gacttttact 60
gttatattaa ttgccaatat aagtaaatat agattatata tgtatagtgt ttcacaaagc 120
ttagaccttt accttcagc caccacacag tgcttgatat ttcagagtca gtcattgggt 180
atacatgtgt agttccaaag cacataagct agaanaanaa atatttctag ggagcactac 240
catctgtttt cacatgaaat gccacacaca tagaactcca acatcaattt cattgcacag 300
a 301

<210> 280
<211> 301
<212> DNA
<213> Homo sapien

<400> 280
ggtaactggag ttttctctcc ctgtgaaaac gtaactactg ttgggagtga attgaggatg 60
tagaaagggtg gtggaaccaa attgtggtca atggaaatag gagaatatgg ttctcactct 120
tgagaaaaaa acctaagatt agcccaggta gttgcctgta acttcagttt ttctgcctgg 180
gtttgatata gtttaggggt gggttagat taagatctaa attacatcag gacaaagaga 240
cagactatta actccacagt taattaagga ggtatgttcc atgtttatgt gttaaagcag 300
t 301

<210> 281

<211> 301
 <212> DNA
 <213> Homo sapien

<400> 281
 aggtacaaga aggggaatgg gaaagagctg ctgctgtggc attgttcaac ttggatattc 60
 gccgagcaat ccaaattcctg aatgaagggg catcttctga aaaaggagat ctgaatctca 120
 atgtggtagc aatggcttta tcgggttata cggatgagaa gaactccctt tggagagaaa 180
 tgtgtagcac actgogatta cagctaaata accogtattt gtgtgtcatg tttgcatttc 240
 tgacaagtga aacaggatct tacgatggag ttttgtatga aaacaaagtt gcagtacctc 300
 g 301

<210> 282
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 282
 caggtactac agaattaaaa tactgacaag caagtagttt cttggcgtgc acgaattgca 60
 tccagaaccc aaaaattaaag aaattcaaaa agacattttg tgggcacctg ctagcacaga 120
 agcgagaaag caaagcccag gcagaaccat gctaacctta cagctcagcc tgcacagaag 180
 cgcagaagca aagcccaggc agaaccatgc taaccttaca gctcagcctg cacagaagcg 240
 cagaagcaaa gcccaggcag aacatgctaa ccttacagct cagcctgcac agaagcacag 300
 a 301

<210> 283
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 283
 atctgtatac ggcagacaaa ctttatarag tgtagagagg tgagcgaaaag gatgcaaaaag 60
 cactttgagg gctttataat aatatgtctg ttgaaaaaaa aaatgtgtag ttgatactca 120
 gtgcatctcc agacatagta aggggttgct ctgaccaatc aggtgatcat tttttctatc 180
 acttcccagg ttttatgcaa aaattttgtt aaattctata atggtgatat gcattcttta 240
 ggaaacatat acatttttaa aaatctattt tatgtaagaa ctgacagacg aatttgcttt 300
 g 301

<210> 284
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 284
 caggtacaaa acgctattaa gtggcttaga atttgaacat ttgtggtctt tattttacttt 60
 gcttcgtgtg tgggcaaagc aacatcttcc ctaaaatat attaccaaga aaagcaagaa 120
 gcagattagg tttttgacaa aacaaacagg ccaaaagggg gctgacctgg agcagagcat 180
 ggtgagaggc aaggcatgag agggcaagtt tgttgtggac agatctgtgc ctactttatt 240
 actggagtaa aagaaaacaa agttcattga tgtcgaagga tatatacagt gttagaaatt 300
 a 301

<210> 285
 <211> 301
 <212> DNA

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$\langle 223 \rangle \quad n = A, T, C \text{ or } G$

acatcaccat	gatcggatcc	cccacccatt	atacgttgta	tgtttacata	aatactcttc	60
aatgatcatt	agtgttttaa	aaaaataact	gaaaactcct	tctgcatccc	aatctctaac	120
caggaaagca	aatgctattt	acagacctgc	aagccctccc	tcaaacnaaa	ctatttctgg	180
attaaatatg	tctgacttct	tttgaggtca	cacgactagg	caaatgctat	ttacgatctg	240
caaaagctgt	ttgaagagtc	aaagcccca	tgtgaacacg	atttctggac	cctgtaacag	300
t						301

<213> Homo sapien

taccactgca	ttccagcctg	ggtgacagag	tgagactccg	tctccaaaaa	aaactttgct	60
tgtatattat	ttttgcctta	cagtg gatca	ttctagtagg	aaaggacagt	aagatttttt	120
atcaaaatgt	gtcatgccag	taagagatgt	tatatctctt	tctcatttct	tccccacca	180
aaaataagct	accatatagc	ttataagtct	caaatttttg	ccttttacta	aaatgtgatt	240
gtttctgttc	attgtgtatg	cttcattcacc	tatatttaggc	aaattccatt	ttttcccttg	300
t						301

<213> Homo sapien

tacagatctg	ggaactaaat	attaaaaatg	agtgtggctg	gatatatgga	gaatgttggg	60
cccagaagga	acgtagagat	cagatattac	aacagctttg	ttttgagggg	tagaaatatg	120
aaatgatttg	gttatgaacg	cacagtttag	gcagcagggc	cagaatcctg	accctctgcc	180
ccgtggttat	ctcctcccca	gcttggtgc	ctcatgttat	cacagtattc	cattttgttt	240
gttgcatgtc	ttgtgaagcc	atcaagattt	tctcgtctgt	tttcctctca	ttggtaatgc	300
t						301

<213> Homo sapien

gtacacctaa	ctgcaaggac	agctgaggaa	tgtaatgggc	agccgctttt	aaagaagtag	60
agtcaatagg	aagacaaatt	ccagttccag	ctcagtcctgg	gtatctgcaa	agctgcaaaa	120
gactctttaa	gacaatttca	agagaatatt	tccttaaagt	tggcaatttg	gagatcatac	180
aaaagcatct	gcttttgtga	tttaatttag	ctcatctggc	cactggaaga	atccaaacag	240
tctgccttaa	ttttggatga	atgcatgatg	gaaattcaat	aatttagaaa	gttaaaaaaa	300
a						301

<210> 289
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 289
 ggtacactgt ttccatgta tgtttctaca cattgctacc tcagtgtcc tggaaactta 60
 gcttttgatg tctccaagta gtccaccttc atttaactct ttgaaactgt atcatctttg 120
 ccaagtaaga gtggtggcct atttcagctg ctttgacaaa atgactggct cctgacttaa 180
 cgttctataa atgaatgtgc tgaagcaaag tgcccatggt ggcggcgaan aagagaaaga 240
 tgtgttttgt tttggactct ctgtgtccc ttccaatgct gtgggtttcc aaccagngga 300
 a 301

<210> 290
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 290
 aactgagct cttcttgata aatatacaga atgcttggca tatacaagat tctatactac 60
 tgactgatct gttcatttct ctcacagctc ttacccocaa aagcttttcc accctaagtg 120
 ttctgacctc cttttctaata cacagtaggg atagaggcag anccacctac aatgaacatg 180
 gagttctatc aagaggcaga aacagcacag aatcccagtt ttaccattcg ctagcagtgc 240
 tgccttgaac aaaaacattt ctccatgtct cattttcttc atgcctcaag taacagttag 300
 a 301

<210> 291
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 291
 caggtaccaa tttcttctat cctagaaaca tttcatttta tgttgttgaa acataacaac 60
 tatatcagct agattttttt tctatgcttt acctgctatg gaaaatttga cacattctgc 120
 tttactcttt tgtttatagg tgaatcacia aatgtatttt tatgtattct gtagttcaat 180
 agccatggct gtttacttca ttttaatttat ttagcataaa gacattatga aaaggcctaa 240
 acatgagctt cacttcccca ctaactaatt agcatctggt atttcttaac cgtaatgcct 300
 a 301

<210> 292
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 292

accttttagt	agtaatgtct	aataataaat	aagaaatcaa	ttttataagg	tccatatagc	60
tgtattaaat	aatttttaag	tttaaaagat	aaaataoccat	catttttaa	gttggtattc	120
aaaaccaaag	natataaccg	aaaggaaaaa	cagatgagac	ataaaatgat	ttgcnagatg	180
ggaaatatag	tasttyatga	atgttnatta	aattccagtt	ataatagtgg	ctacacactc	240
tcactacaca	cacagacccc	acagtcctat	atgccacaaa	cacatttcca	taacttgaaa	300
a						301

<210> 293
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 293

ggtaccaagt	gctgggtgcc	gcctgttacc	tgttctcact	gaaaagtctg	gctaattgctc	60
ttgtgtagtc	acttctgatt	ctgacaatca	atcaatcaat	ggcctagagc	actgactgtt	120
aacacaaacg	tcactagcaa	agtagcaaca	gctttaagtc	taaatacaaa	gctgttctgt	180
gtgagaattt	tttaaaaggc	tacttgtata	ataacccttg	tcatttttaa	tgtacctcgg	240
ccgcgaccac	gctaagccga	attctgcaga	tatccatcac	actggcgggc	gctcgagcat	300
g						301

<210> 294
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 294

tgaccataa	caatatacac	tagctatctt	tttaactgtc	catcattagc	accaatgaag	60
attcaataaa	attaccttta	ttcacacatc	tcaaaacaat	tctgcaaatt	cttagtgaag	120
tttaactata	gtcacaganc	ttaaataatc	acattgtttt	ctatgtctac	tgaaaataag	180
ttcactactt	ttctgggata	ttctttacaa	aatcttatta	aaattcctgg	tattatcacc	240
cccaattata	cagtagcaca	accaccttat	gtagttttta	catgatagct	ctgtagaggt	300
t						301

<210> 295
 <211> 305
 <212> DNA
 <213> Homo sapien

<400> 295

gtactctttc	tctccctccc	tctgaattta	attctttcaa	cttgcaattt	gcaaggatta	60
cacatttcac	tgtgatgtat	attgtgttgc	aaaaaaaaa	gtgtctttgt	ttaaaattac	120
ttggtttgtg	aatccatctt	gctttttccc	cattggaact	agtcattaac	ccatctctga	180
actgglagaa	aaacrtctga	agagctagtc	tatcagcatc	tgacaggtga	attggatggt	240

<213> Homo sapien

<400> 299

```
gttttgagac ggagtttcac tcttggtgcc cagactggac tgcaatggca gggctctctgc    60
tcaactgcacc ctctgcctcc caggttcgag caattctcct gcctcagcct cccaggtagc    120
tggtgattgca ggctcacgcc accataccca gctaattttt ttgtattttt agtagagacg    180
gagtttcgcc atgttggcca gctgggtctca aactcctgac ctcaagcgac ctgcctgcct    240
cggcctccca aagtgtctgga attataggca tgagtcaaca cgcccagcct aaagatattt    300
t                                                                    301
```

<210> 300

<211> 301

<212> DNA

<213> Homo sapien

<400> 300

```
attcagtttt atttgctgcc ccagtatctg taaccaggag tgccacaaaa tcttgccaga    60
tatgtccac acccaactggg aaaggctccc acctggctac ttctctatc agctgggtca    120
gctgcattcc acaagggttct cagcctaatt agtttacta cctgccagtc tcaaaactta    180
gtaaagcaag accatgacat tccccacgg aaatcagagt ttgccccacc gtcttggttac    240
tataaagcct gcctctaaca gtccttgctt cttcacacca atcccagcgc catcccccat    300
g                                                                    301
```

<210> 301

<211> 301

<212> DNA

<213> Homo sapien

<400> 301

```
ttaaattttt gagaggataa aaaggacaaa taatctagaa atgtgtcttc ttcagtctgc    60
agaggacccc aggtctccaa gcaaccacat ggtcaagggc atgaataatt aaaagttggt    120
gggaactcac aaagaccctc agagctgaga caccacaaac agtgggagct cacaaagacc    180
ctcagagctg agacaccac aacagtggga gtcacaaag accctcagag ctgagacacc    240
cacaacagca cctcgttcag ctgccacatg tgtgaataag gatgcaatgt ccagaagtgt    300
t                                                                    301
```

<210> 302

<211> 301

<212> DNA

<213> Homo sapien

<400> 302

```
aggtacacat ttagcttggtg gtaaagtact cacaaaactg attttaaaat caagttaatg    60
tgaattttga aaattactac ttaatcctaa ttcacaataa caatggcatt aaggtttgac    120
ttgagttggt tcttagtatt atttatggta aataggctct taccacttgc aaataactgg    180
ccacatcatt aatgactgac ttcccagtaa ggctctctaa ggggtaagta ggaggatcca    240
caggatttga gatgctaagg ccccagagat cgtttgatcc aaccctctta ttttcagagg    300
g                                                                    301
```

<210> 303

<211> 301

<212> DNA

<213> Homo sapien

<400> 303

```

aggtaccaac tgtggaaata ggtagaggat cattttttct ttccatatca actaagttgt      60
atattgtttt ttgacagttt aacacatctt cttctgtcag agattctttc acaatagcac      120
tggctaattg aactaccgct tgcattgtta aaatggtggt ttgtgaaatg atcataggcc      180
agtaacgggt atgtttttct aactgatctt ttgctcgttc caaagggacc tcaagacttc      240
catcgatttt atatctgggg tctagaaaag gagttaatct gttttccctc ataaattcac      300
c                                          301

```

<210> 304

<211> 301

<212> DNA

<213> Homo sapien

<400> 304

```

acatggatgt tattttgcag actgtcaacc tgaatttgta tttgcttgac attgcctaatt      60
tattagtttc agtttcagct tacccacttt ttgtctgcaa catgcaraas agacagtgcc      120
cttttttagtg tatcatatca ggaatcatct cacattgggt tgtgccatta ctggtgcagt      180
gactttcagc cacttgggta agtgggagtt ggccatatgt ctccactgca aaattactga      240
ttttcctttt gtaattaata agtgtgtgtg tgaagattct ttgagatgag gtatatatct      300
c                                          301

```

<210> 305

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 305

```

gangtacagc gtggtcaagg taacaagaag aaaaaaatgt gagtggcatc ctgggatgag      60
caggggggaca gacctggaca gacacgttgt catttgctgc tgtgggtagg aaaatgggcg      120
taaaggagga gaaacagata caaatctcc aactcagtat taaggatttc tcatgcctag      180
aatattggta gaaacaagaa tacattcata tggcaaataa ctaaccatgg tggaacaaaa      240
ttctgggatt taagttggat accaangaaa ttgtattaaa agagctgttc atggaataag      300
a                                          301

```

<210> 306

<211> 8

<212> PRT

<213> Homo sapien

<400> 306

```

Val Leu Gly Trp Val Ala Glu Leu
1              5

```

<210> 307

<211> 637

<212> DNA

<213> Homo sapien

<400> 307

```

acaggggatg aagggaaagg gagaggatga ggaagccccc ctggggattt ggtttgggcc 60
ttgtgatcag gtggtctatg gggcttatcc ctacaaagaa gaatccagaa atagggggcac 120
attgaggaat gatacttgag cccaaagagc attcaatcat tgttttattt gccttmtttt 180
cacaccattg gtgagggagg gattaccacc ctgggggttat gaagatgggtt gaacacccca 240
cacatagcac cggagatatg agatcaacag tttcttagcc atagagattc acagcccaga 300
gcaggaggac gcttgcacac catgcaggat gacatggggg atgcgctcgg gattgggtgtg 360
aagaagcaag gactgttaga ggcaggcttt atagtaacaa gacggtgggg caaactctga 420
tttcctgtgg ggaatgtcat ggtcttgctt tactaagttt tgagactggc aggtagttaa 480
actcattagg ctgagaacct tgtggaatgc acttgaccca scgatagag gaagtagcca 540
ggtgggagcc tttcccagtg ggtgtgggac atatctggca agattttgtg gcactcctgg 600
ttacagatac tggggcagca aataaaaactg aatcttg 637

```

<210> 308

<211> 647

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(647)

<223> n = A,T,C or G

<400> 308

```

acgattttca ttatcatgta aatcgggtca ctcaaggggc caaccacagc tgggagccac 60
tgctcagggg aaggttcata tgggactttc tactgccccaa ggttctatac aggatataaa 120
ggngcctcac agtatagatc tggtagcaaa gaagaagaaa caaacactga tctctttctg 180
ccacccctct gacccttttg aactcctctg accctttaga acaagcctac ctaatatctg 240
ctagagaaaa gaccaacaac ggctcctcag gatctcttac catgaaggtc tcagctaatt 300
cttggttaag atgtgggttc cacattaggt tctgaatatg gggggaaggg tcaatttgct 360
cattttgtgt gtggataaag tcaggatgcc caggggccag agcagggggc tgcttgcttt 420
gggaacaatg gctgagcata taaccatagg ttatggggaa caaaacaaca tcaaagtcac 480
tgtatcaatt gccatgaaga cttgagggc ctgaatctac cgattcatct taaggcagca 540
ggaccagttt gagtggcaac aatgcagcag cagaatcaat ggaaacaaca gaatgattgc 600
aatgtccttt tttttctcct gcttctgact tgataaaaagg ggaccgt 647

```

<210> 309

<211> 460

<212> DNA

<213> Homo sapien

<400> 309

```

actttatagt ttaggctgga cattggaaaa aaaaaaaagc cagaacaaca tgtgatagat 60
aatatgattg gctgcacact tccagactga tgaatgatga acgtgatgga ctattgtatg 120
gagcacatct tcagcaagag ggggaaatac tcatcatttt tggccagcag ttgtttgatc 180
accaaacatc atgccagaat actcagcaaa ccttcttagc tcttgagaag tcaaagtcag 240
ggggaattta ttcttgccaa tttaattgg actccttagt tgagagcagc ggctaccag 300
ctggggtggg ggagcgaacc cgtcactagt ggacatgcag tggcagagct cctggtaacc 360
acctagagga atacacaggc acatgtgtga tgccaagcgt gacacctgta gcactcaaatt 420
ttgtcttggt tttgtctttc ggtgtgtaag attcttaagt 460

```

<210> 310

<211> 539

<212> DNA

<213> Homo sapien

<400> 310

acgggactta	tcaaataaag	ataggaaaag	aagaaaactc	aatattata	ggcagaaatg	60
ctaaaggttt	taaaatatgt	caggattgga	agaaggcatg	gataaagaac	aaagttcagt	120
taggaaagag	aaacacagaa	ggaagagaca	caataaaagt	cattatgtat	tctgtgagaa	180
gtcagacagt	aagatttgtg	ggaaatgggt	tggtttgttg	tatggtatgt	attttagcaa	240
taatctttat	ggcagagaaa	gctaaaatcc	tttagcttgc	gtgaatgatc	acttgctgaa	300
ttcctcaagg	taggcatgat	gaaggagggt	ttagaggaga	cacagacaca	atgaactgac	360
ctagatagaa	agccttagta	tactcagcta	ggaatagtga	ttctgagggc	acactgtgac	420
atgattatgt	cattacatgt	atggtagtga	tggggatgat	aggaaggaag	aacttatggc	480
atattttcac	ccccacaaaa	gtcagttaaa	tattgggaca	ctaaccatcc	aggtcaaga	539

<210> 311

<211> 526

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(526)

<223> n = A,T,C or G

<400> 311

caaatttgag	ccaatgacat	agaattttac	aatcaagaa	gcttattctg	gggccatttc	60
ttttgacgtt	ttctctaaac	tactaaagag	gcattaatga	tccataaatt	atattatcta	120
catttacagc	atttaaaatg	tgttcagcat	gaaatattag	ctacagggga	agctaaataa	180
attaaacatg	gaataaagat	ttgtccttaa	atataatcta	caagaagact	ttgatatttg	240
tttttcacaa	gtgaagcatt	cttataaagt	gtcataacct	ttttggggaa	actatgggaa	300
aaaatgggga	aactctgaag	ggtttttaagt	atcttacctg	aagctacaga	ctccataacc	360
tctctttaca	gggagctcct	gcagccccta	cagaaatgag	tggctgagat	tcttgattgc	420
acagcaagag	cttctcatct	aaaccctttc	cctttttagt	atctgtgtat	caagtataaa	480
agttctataa	actgtagtnt	acttatttta	atccccaaag	cacagt		526

<210> 312

<211> 500

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(500)

<223> n = A,T,C or G

<400> 312

cctctctctc	cccacccct	gactctagag	aactgggttt	tctcccagta	ctccagcaat	60
tcattttctga	aagcagttga	gccactttat	tccaaagtac	actgcagatg	ttcaaactct	120
ccattttctct	ttcccttcca	cctgccagtt	ttgctgactc	tcaacttgtc	atgagtgtaa	180
gcattaagga	cattatgctt	cttcgattct	gaagacaggc	cctgctcatg	gatgactctg	240
gcttcttagg	aaaatatattt	tcttccaaaa	tcagtaggaa	atctaaactt	atccctctt	300
tgcagatgtc	tagcagcttc	agacatttgg	ttaagaacct	atgggaaaaa	aaaaaatcct	360
tgctaattgt	gtttcctttg	taaaccanga	ttcttatttg	nctggtatag	aatatcagct	420
ctgaacgtgt	ggtaaagatt	tttgtgtttg	aatataggag	aatcagttt	gctgaaaagt	480
tagtcttaat	tatctattgg					500

<210> 313
 <211> 718
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(718)
 <223> n = A,T,C or G

<400> 313

ggagatttgt	gtggtttgca	gccgagggag	accaggaaga	tctgcatggt	gggaaggacc	60
tgatgataca	gaggtgagaa	ataagaaagg	ctgctgactt	taccatctga	ggccacacat	120
ctgctgaaat	ggagataatt	aacatcacta	gaaacagcaa	gatgacaata	taatgtctaa	180
gtagtgaacat	gtttttgcac	atttccagcc	cttttaaata	tccacacaca	caggaagcac	240
aaaaggaagc	acagagatcc	ctgggagaaa	tgcccggccg	ccatcttggg	tcatcgatga	300
gcctgcacct	gtgcctgntc	ccgcttgatg	gggaaggaca	ttagaaaatg	aattgatgtg	360
ttccttaaag	gattggcagga	aaacagatcc	tgttgatgat	atttatttga	acgggattac	420
agatttgaaa	tgaagtcaca	aagtgaacat	taccaatgag	aggaaaacag	acgagaaaat	480
cttgatgggt	cacaagacat	gcaacaaaca	aaatggaata	ctgtgatgac	acgagcagcc	540
aaactggggag	gagataccac	ggggcagagg	tcaggattct	ggcctgctg	cctaactgtg	600
cgttatacca	atcattttcta	tttctaccct	caaacaagct	gtngaataatc	tgacttacgg	660
ttcttntggc	ccacattttc	atnatccacc	ccntcntttt	aannttantc	caaantgt	718

<210> 314
 <211> 358
 <212> DNA
 <213> Homo sapien

<400> 314

gtttattttac	attacagaaa	aaacatcaag	acaatgtata	ctattttcaaa	tatatccata	60
cataatcaaa	tatagctgta	gtacatgttt	tcattgggtg	agattaccac	aaatgcaagg	120
caacatgtgt	agatctcttg	tcttattctt	ttgtctataa	tactgtattg	tgtagtccaa	180
gctctcggta	gtccagccac	tgtgaaacat	gctcccttta	gattaacctc	gtggacgctc	240
ttgttgtlatt	gctgaactgt	agtgcctgtg	atthttgctt	tgtctgtgaa	ttctgttgct	300
tctggggcat	ttccttgatg	tgcagaggac	caccacacag	atgacagcaa	tctgaatt	358

<210> 315
 <211> 341
 <212> DNA
 <213> Homo sapien

<400> 315

taccacctcc	ccgctggcac	tgatgagccg	catcaccatg	gtcaccagca	ccatgaaggc	60
ataggtgatg	atgaggacat	ggaatgggcc	cccaaggatg	gtctgtccaa	agaagcgagt	120
gacccccatt	ctgaagatgt	ctggaacctc	taccagcagg	atgatgatag	ccccaatgac	180
agtcaccagc	tccccgacca	gccggatatc	gtccttaggg	gtcatgtagg	cttcctgaag	240
tagcttctgc	tgtaagaggg	tgttgtcccg	ggggctcgtg	cggttattgg	tcctgggctt	300
gagggggcgg	tagatgcagc	acatggtgaa	gcagatgatg	t		341

<210> 316
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 316

```

agactgggca agactcttac gccccacact gcaatttggt cttgttgccg tatccattta      60
tgtgggcctt tctcgagttt ctgattataa acaccactgg agcgatgtgt tgactggact    120
cattcaggga gctctggttg caatattagt t                                     151

```

<210> 317

<211> 151

<212> DNA

<213> Homo sapien

<400> 317

```

agaactagtg gatcctaataa aaatacctga aacatatatt ggcatttatc aatggctcaa      60
atcttcattt atctctggcc ttaaccctgg ctcctgaggc tgcggccagc agatcccagg    120
ccagggtctt gttcttgcca cacctgcttg a                                     151

```

<210> 318

<211> 151

<212> DNA

<213> Homo sapien

<400> 318

```

actggtggga ggcgctgttt agttggctgt tttcagaggg gtctttcggg gggacctcct      60
gctgcaggct ggagtgtctt tattcctggc gggagaccgc acattccact gctgaggctg    120
tgggggcggt ttatcaggga gtgataaaca t                                     151

```

<210> 319

<211> 151

<212> DNA

<213> Homo sapien

<400> 319

```

aactagtgga tccagagcta taggtacagt gtgatctcag ctttgcaaac acattttcta      60
catagatagt actaggtatt aatagatatg taaagaaaga aatcacacca ttaataatgg    120
taagattggg tttatgtgat tttagtgggt a                                     151

```

<210> 320

<211> 150

<212> DNA

<213> Homo sapien

<400> 320

```

aactagtgga tccactagtc cagtgtggtg gaattccatt gtgttggggt tctagatcgc      60
gagcggctgc cctttttttt tttttttttg ggggggaatt tttttttttt aatagttatt    120
gagtgttcta cagcttacag taaataccat                                     150

```

<210> 321

<211> 151

<212> DNA

<213> Homo sapien

<400> 321

```

agcaactttg tttttcatcc aggttatttt aggccttagga tttcctctca cactgcagtt      60
taggggtggca ttgtaaccag ctatggcata ggtgttaacc aaaggctgag taaacatggg    120

```

151

<400> 322

60
120
151

<400> 323

60
120
151

<400> 324

60
120
180
240
300
360
420
461

$\langle 210 \rangle$ 325
 $\langle 211 \rangle$ 400

<212> DNA

<213> Homo sapien

<400> 325

```

acactgtttc catgttatgt ttctacacat tgctacctca gtgctcctgg aaacttagct      60
tttgatgtct ccaagtagtc caccttcatt taactctttg aaactgtatc atctttgcca      120
agtaagagtg gtggcctatt tcagctgctt tgacaaaatg actggctcct gacttaacgt      180
tctataaatg aatgtgctga agcaaagtgc ccatggtggc ggcgaagaag agaaagatgt      240
gttttgtttt ggactctctg tgggcccttc caatgctgtg ggtttccaac caggggaagg      300
gtcccttttg cattgccaaag tgccataacc atgagcacta cgctaccatg gttctgcctc      360
ctggccaagc aggctgggtt gcaagaatga aatgaatgat      400

```

<210> 326

<211> 1215

<212> DNA

<213> Homo sapien

<400> 326

```

ggaggactgc agcccgcaact cgcagccctg gcaggcggca ctggtcatgg aaaacgaatt      60
gttctgctcg ggcgtcctgg tgcatecgca gtgggtgctg tcagccgcac actgtttcca      120
gaactcctac accatcgggc tgggcctgca cagtcttgag gccgaccaag agccagggag      180
ccagatggtg gaggccagcc tctccgtaog gcaccagag tacaacagac ccttgctcgc      240
taacgacctc atgctcatca agttggacga atccgtgtcc gagtctgaca ccatccggag      300
catcagcatt gcttcgcagt gccctaccgc ggggaactct tgcctcgttt ctggctgggg      360
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<210> 327

<211> 220

<212> PRT

<213> Homo sapien

<400> 327

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Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro
165 170 175
Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala
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<211> 234

<212> DNA

<213> Homo sapien

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<212> PRT

<213> Homo sapien

<400> 329

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<212> DNA

<213> Homo sapien

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<212> PRT

<213> Homo sapien

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<211> 2507

<212> DNA

<213> Homo sapien

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<211> 3030

<212> DNA

<213> Homo sapien

<400> 333

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<211> 2417

<212> DNA

<213> Homo sapien

<400> 334

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<211> 2984

<212> DNA

<213> Homo sapien

<400> 335

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agacattaga	aaaaaatgaa	acaacaaaac	aattactaat	gaggtacgct	gaggcctggg	2220
agtctcttga	ctccactact	taattccgtt	tagtgagaaa	cctttcaatt	ttcttttatt	2280
agaagggcc	gcttactgtt	ggtggcaaaa	ttgccaacat	aagttaatag	aaagttggcc	2340
aatttcaccc	cattttctgt	ggtttgggct	ccacattgca	atgttcaatg	ccacgtgctg	2400


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ctgacaccga cccgagtact agccagcaca aaaggcaggg tagcctgaat tgctttctgc 2460
tctttacatt tcttttaaaa taagcattta gtgctcagtc cctactgagt actctttctc 2520
tcccctcctc tgaatttaaat tctttcaact tgcaatttgc aaggattaca catttcactg 2580
tgatgtatat tgtgttgcaa aaaaaaaaaa aagtgtcttt gtttaaaatt acttggtttg 2640
tgaatccatc ttgctttttc cccattggaa ctagtcatta acccatctct gaactggtag 2700
aaaaacatct gaagagctag tctatcagca tctgacaggt gaattggatg gttctcagaa 2760
ccatttcacc cagacagcct gtttctatcc tgtttaataa attagtttgg gttctctaca 2820
tgcataacaa accctgtctc aatctgtcac ataaaagtct gtgacttgaa gtttagtcag 2880
caccoccacc aaactttatt tttctatgtg ttttttgcaa catatgagtg ttttgaaaat 2940
aaagtaccca tgtctttatt agaaaaaaaa aaaaaaaaaa aaaa 2984

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<210> 336
<211> 147
<212> PRT
<213> Homo sapien

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<400> 336

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Pro Ser Phe Pro Thr Leu Leu Ser Arg Arg His Leu Gly Ser Tyr Leu
 1          5          10          15
Leu Asp Ser Glu Asn Thr Ser Gly Ala Leu Pro Arg Leu Pro Gln Thr
          20          25          30
Pro Lys Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln
          35          40          45
Val Ile Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala
          50          55          60
Pro Glu Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln
65          70          75          80
Val Lys Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln
          85          90          95
Leu Ser Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala
          100          105          110
Leu Lys Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn
          115          120          125
Ser Tyr Pro Tyr Tyr Pro Tyr Leu Tyr Cys Val Gly Ser Trp Ser Pro
          130          135          140
Ala Phe Trp
145

```

```

<210> 337
<211> 9
<212> PRT
<213> Homo sapien

```

```

<400> 337

```

```

Ala Leu Thr Gly Phe Thr Phe Ser Ala
 1          5

```

```

<210> 338
<211> 9
<212> PRT
<213> Homo sapien

```

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<400> 338

```

```

Leu Leu Ala Asn Asp Leu Met Leu Ile

```

1

5

<210> 339
 <211> 318
 <212> PRT
 <213> Homo sapien

<400> 339

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Met Val Glu Leu Met Phe Pro Leu Leu Leu Leu Leu Leu Pro Phe Leu
 1          5          10          15
Leu Tyr Met Ala Ala Pro Gln Ile Arg Lys Met Leu Ser Ser Gly Val
 20          25          30
Cys Thr Ser Thr Val Gln Leu Pro Gly Lys Val Val Val Val Thr Gly
 35          40          45
Ala Asn Thr Gly Ile Gly Lys Glu Thr Ala Lys Glu Leu Ala Gln Arg
 50          55          60
Gly Ala Arg Val Tyr Leu Ala Cys Arg Asp Val Glu Lys Gly Glu Leu
 65          70          75          80
Val Ala Lys Glu Ile Gln Thr Thr Thr Gly Asn Gln Gln Val Leu Val
 85          90          95
Arg Lys Leu Asp Leu Ser Asp Thr Lys Ser Ile Arg Ala Phe Ala Lys
 100         105         110
Gly Phe Leu Ala Glu Glu Lys His Leu His Val Leu Ile Asn Asn Ala
 115         120         125
Gly Val Met Met Cys Pro Tyr Ser Lys Thr Ala Asp Gly Phe Glu Met
 130         135         140
His Ile Gly Val Asn His Leu Gly His Phe Leu Leu Thr His Leu Leu
 145         150         155         160
Leu Glu Lys Leu Lys Glu Ser Ala Pro Ser Arg Ile Val Asn Val Ser
 165         170         175
Ser Leu Ala His His Leu Gly Arg Ile His Phe His Asn Leu Gln Gly
 180         185         190
Glu Lys Phe Tyr Asn Ala Gly Leu Ala Tyr Cys His Ser Lys Leu Ala
 195         200         205
Asn Ile Leu Phe Thr Gln Glu Leu Ala Arg Arg Leu Lys Gly Ser Gly
 210         215         220
Val Thr Thr Tyr Ser Val His Pro Gly Thr Val Gln Ser Glu Leu Val
 225         230         235         240
Arg His Ser Ser Phe Met Arg Trp Met Trp Trp Leu Phe Ser Phe Phe
 245         250         255
Ile Lys Thr Pro Gln Gln Gly Ala Gln Thr Ser Leu His Cys Ala Leu
 260         265         270
Thr Glu Gly Leu Glu Ile Leu Ser Gly Asn His Phe Ser Asp Cys His
 275         280         285
Val Ala Trp Val Ser Ala Gln Ala Arg Asn Glu Thr Ile Ala Arg Arg
 290         295         300
Leu Trp Asp Val Ser Cys Asp Leu Leu Gly Leu Pro Ile Asp
 305         310         315

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<210> 340
 <211> 483
 <212> DNA
 <213> Homo sapien

<400> 340

gccgaggtct	gccttcacac	ggaggacacg	agactgcttc	ctcaagggct	cctgcctgcc	60
tggacactgg	tgggagggcg	tgtttagttg	gctgttttca	gaggggtctt	tgggagggac	120
ctcctgctgc	aggctggagt	gtctttattc	ctggcgggag	accgcacatt	ccactgctga	180
ggttggtggg	gcggtttatc	aggcagtgat	aaacataaga	tgtcatttcc	ttgactccgg	240
ccttcaattt	tctctttggc	tgacgacgga	gtccgtggtg	tcccgatgta	actgaccctt	300
gctccaaacg	tgacatcact	gatgctcttc	tccgggggtg	tgatggcccg	cttgggtcacg	360
tgctcaatct	cgccattcga	ctcttgctcc	aaactgtatg	aagacacctg	actgcacgtt	420
ttttctgggc	ttccagaatt	taaagtgaag	ggcagcactc	ctaagctcog	actccgatgc	480
ctg						483

<210> 341

<211> 344

<212> DNA

<213> Homo sapien

<400> 341

ctgctgctga	gtcacagatt	tcattataaa	tagcctccct	aaggaaaata	caactgaatgc	60
tatttttact	aaccattcta	tttttataga	aatagctgag	agtttctaaa	ccaactctct	120
gctgccttac	aagtattaaa	tattttactt	ctttccataa	agagtagctc	aaaatatgca	180
attaatttaa	taattttctga	tgatgggttt	atctgcagta	atatgtatat	catctattag	240
aatttactta	atgaaaaaact	gaagagaaca	aaatttgtaa	ccactagcac	ttaagtactc	300
ctgattctta	acattgtctt	taatgaccac	aagacaacca	acag		344

<210> 342

<211> 592

<212> DNA

<213> Homo sapien

<400> 342

acagcaaaaa	agaaactgag	aagcccaaty	tgctttcttg	ttaacatcca	cttatccaac	60
caatgtggaa	acttcttata	cttgggtcca	ttatgaagtt	ggacaattgc	tgctatcaca	120
cctggcaggt	aaaccaatgc	caagagagtg	atggaaacca	ttggcaagac	tttgttgatg	180
accaggattg	gaattttata	aaaatattgt	tgatgggaag	ttgctaaagg	gtgaattact	240
tccctcagaa	gagtgtaaag	aaaagtcaga	gatgctataa	tagcagctat	tttaattggc	300
aagtgccact	gtggaaagag	ttcctgtgtg	tgctgaagtt	ctgaagggca	gtcaaattca	360
tcagcatggg	ctgtttggtg	caaatgcaaa	agcacaggtc	tttttagcat	gctggtctct	420
cccgtgtcct	tatgcaata	atcgtcttct	tctaaatttc	tcctaggctt	cattttccaa	480
agttcttctt	ggtttgtgat	gtcttttctg	ctttccatta	attctataaa	atagtatggc	540
ttcagccacc	cactcttcgc	cttagcttga	ccgtgagtct	cggctgccgc	tg	592

<210> 343

<211> 382

<212> DNA

<213> Homo sapien

<400> 343

ttcttgacct	cctcctcctt	caagctcaaa	caccacctcc	cttattcagg	accggcactt	60
cttaaatgtt	gtggctttct	ctccagcctc	tcttaggagg	ggtaatggtg	gagttggcat	120
cttgtaactc	tcctttctcc	tttcttcccc	tttctctgcc	cgcctttccc	atcctgctgt	180
agacttcttg	attgtcagtc	tgtgtcacat	ccagtgattg	ttttggtttc	tgttcccttt	240
ctgaactgcc	aaggggctca	gaaccccagc	aatcccttcc	tttcaactac	ttcttttttg	300
ggggtagttg	gaagggactg	aaattgtggg	gggaaggtag	gaggcacatc	aataaagagg	360

382

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<210> 344
<211> 536
<212> DNA
<213> Homo sapien
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<400> 344							
ctgggcctga	agctgtaggg	taaatcagag	gcaggcttct	gagtgatgag	agtcctgaga	60	
caataggcca	cataaacttg	gctggatgga	acctcacaat	aaggtgggtca	cctcttgttt	120	
gtttaggggg	atgccaaagg	taaggccagc	tcagttatat	gaagagaagc	agaacaaaca	180	
agttctttcag	agaaatggat	gcaatcagag	tgggatcccg	gtcacatcaa	ggtcacactc	240	
caccttcattg	tgcctgaatg	gttgccagggt	cagaaaaatc	caccccttac	gagtgcggct	300	
tgcaccctat	atccccgcc	cgcgtccctt	tctccataaa	attctttctta	gtagctatta	360	
ccttctttatt	atttgatcta	gaaattgcc	tcctttttacc	cctaccatga	gccctacaaa	420	
caactaacct	gccactaata	gttatgtcat	ccctctttatt	aatcatcatc	ctagccctaa	480	
gtctggccta	tgaqtgacta	caaaaaggat	tagactgagc	cgaataacaa	aaaaaa	536	

```
<210> 345
<211> 251
<212> DNA
<213> Homo sapien
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<400> 345						
accttttgag	gtctctctca	ccacctccac	agccaccgtc	accgtgggat	gtgctggatg	60
tgaatgaagc	ccccatcttt	gtgcctcctg	aaaagagagt	ggaagtgtcc	gaggactttg	120
gcgtggggcca	ggaaatcaca	tctacactg	cccaggagcc	agacacattt	atggaacaga	180
aaataacata	tcggatttgg	agagacactg	ccaactggct	ggagattaat	ccggacactg	240
gtqcacatttc	c					251

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<210> 346
<211> 282
<212> DNA
<213> Homo sapien
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```
<220>  
<221> misc_feature  
<222> (1)...(282)  
<223> n = A,T,C or G
```

<400>	346						
cgcgtctctg	acactgtgat	catgacaggg	gttcaaacag	aaagtgcctg	ggccctcctt		60
ctaagtcttg	ttaccaaaaa	aaggaaaaag	aaaagatctt	ctcagttaca	aattctgnga		120
agggagacta	tacctggctc	ttgcccctaag	tgagagggtc	tccctccgcg	accaaaaaat		180
agaaagcgtt	tctatttcac	tggcccaggt	agggggaagg	agagtaactt	tgagtctgtg		240
ggtctcattt	cccaaggtgc	cttcaatgct	catnaaaacc	aa			282

```
<210> 347
<211> 201
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc feature
```

<222> (1)...(201)

<223> n = A,T,C or G

<400> 347

acacacataa	tattataaaa	tgccatctaa	ttggaaggag	ctttctatca	ttgcaagtca	60
taaatataac	ttttaaaana	ntactancag	cttttaccta	ngctcctaaa	tgcttgtaaa	120
tctgagactg	actggaccca	cccagaccca	gggcaaagat	acatggtacc	atatcatctt	180
tataaagaat	ttttttttgt	c				201

<210> 348

<211> 251

<212> DNA

<213> Homo sapien

<400> 348

ctgttaatca	caacatttgt	gcataccttg	tgccaagtga	gaaaatgttc	taaaatcaca	60
agagagaaca	gtgccagaat	gaaactgacc	ctaagtccca	ggtgcccctg	ggcaggcaga	120
aggagacact	cccagcatgg	aggagggttt	atcttttcat	cctaggtcag	gtctacaatg	180
ggggaagggt	ttattataga	actcccaaca	gcccacctca	ctcctgccac	ccacccgatg	240
gccctgcttc	c					251

<210> 349

<211> 251

<212> DNA

<213> Homo sapien

<400> 349

taaaaatcaa	gccatttaaat	tgtatctttg	aaggtaaaca	atatatggga	gctggatcac	60
aacccctgag	gatgccagag	ctatgggtcc	agaacatggt	gtggtattat	caacagagtt	120
cagaagggtc	tgaactctac	gtgttaccag	agaacataat	gcaattcatg	cattccactt	180
agcaattttg	taaaatacca	gaaacagacc	ccaagagtct	ttcaagatga	ggaaaattca	240
actcctggtt	t					251

<210> 350

<211> 908

<212> DNA

<213> Homo sapien

<400> 350

ctggacactt	tgcgagggtc	tttgctggct	gctgctgctg	cccgatcatgc	tactcatcgt	60
agcccgcccg	gtgaagctcg	ctgctttccc	tacctcctta	agtgactgcc	aaacgcccac	120
cggctggaat	tgctctgggt	atgatgacag	agaaaatgat	ctcttcctct	gtgacaccaaa	180
cacctgtaaa	tttgatgggg	aatgtttaag	aattggagac	actgtgactt	gcgtctgtca	240
gttcaagtgc	aacaatgact	atgtgectgt	gtgtggctcc	aatggggaga	gctaccagaa	300
tgagtgttac	ctgcgacagg	ctgcatgcaa	acagcagagt	gagatacttg	tggtgtcaga	360
aggatcatgt	gccacagtcc	atgaaggctc	tggagaaact	agtcaaaagg	agacatccac	420
ctgtgatatt	tgccagtttg	gtgcagaatg	tgacgaagat	gcccagggatg	tctggtgtgt	480
gtgtaatat	gactgttctc	aaaccaactt	caatccccctc	tgcgcttctg	atgggaaatc	540
ttatgataat	gcatgccaaa	tcaaagaagc	atcgtgtcag	aaacaggaga	aaattgaagt	600
catgtctttg	ggtcgatgtc	aagataacac	aactacaact	actaagtctg	aagatgggca	660
ttatgcaaga	acagattatg	cagagaatgc	taacaaatta	gaagaaaagt	ccagagaaca	720
ccacatacct	tgtccggaac	attacaatgg	cttctgcatg	catgggaagt	gtgagcattc	780
tatcaatatg	caggagccat	cttgccaggtg	tgatgctggt	tatactggac	aacactgtga	840
aaaaaaggac	tacagtgttc	tatacgttgt	tcccggctcct	gtacgatttc	agtatgtctt	900

aatcgtag

908

<210> 351

<211> 472

<212> DNA

<213> Homo sapien

<400> 351

ccagttat	ttt	gcaagtgg	ta	agagcctatt	taccataaat	aataactaaga	accaaactcaa	60
gtcaaacc	ttt	aatgccattg	tt	tattgtgaa	ttaggattaa	gtagtaattt	tcaaaattca	120
cattaact	ttg	at	ttt	taaaat	cagwtttgyg	agtcattttac	cacaagctaa	180
tatgataaaa	aca	accattg	tatt	cctgtt	tttctaaaca	gtcctaattt	ctaactgt	240
atatatcctt	cg	acatcaat	ga	actttgtt	ttcttttact	ccagtaataa	agtaggcaca	300
gatctgtcca	ca	acaaactt	gcc	ctctcat	gccttgccctc	tcacatgct	ctgctccagg	360
tcagccccct	ttt	ggcctgt	tt	gttttgtc	aaaaacctaa	tctgcttctt	gcttttcttg	420
gtaatatata	ttt	agggaag	at	gttgcttt	gcccacacac	gaagcaaagt	aa	472

<210> 352

<211> 251

<212> DNA

<213> Homo sapien

<400> 352

ctcaaagcta	at	ctctcggg	aat	caaacca	gaaaagggca	aggatcttag	gcatgggtgga	60
tgtggataag	gcc	aggtcaa	tgg	ctgcaag	catgcagaga	aagaggta	catcgagcgtg	120
caggctgcgt	tcc	gtcctta	cg	atgaagac	cacgatgcag	tttccaaaca	ttgccactac	180
atacatggaa	agg	agggggga	ag	ccaacca	gaaatgggct	ttctctaata	ctgggatacc	240
aataagcaca	a							251

<210> 353

<211> 436

<212> DNA

<213> Homo sapien

<400> 353

ttttttttt	ttt	ttttttt	ta	caa	caatgcagtc	at	ttat	tttat	tgagtatgtg	60
cacattatgg	tatt	attact	ata	ctgatta	tatttatcat	gtgacttcta	att	aaaaat		120
gtatccaaaa	gca	aaacagc	aga	tatacaa	aattaaagag	acagaagata	gac	attaaca		180
gataaggcaa	ctt	tatacat	gaca	atccaa	atccaaataca	tttaaacatt	tgg	gaaatga		240
gggggacaaa	tgg	aagccar	at	caaatttg	tgtaaaacta	ttcagtatgt	tt	cccttgct		300
tcatgtctga	ra	aggtctc	cct	tcaatgg	ggatgacaaa	ctccaaatgc	cac	acaaatg		360
ttaacagaat	act	agattca	cact	ggaacg	ggggtaaaga	agaaattatt	tt	ctataaaa		420
gggctcctaa	tg	tagt								436

<210> 354

<211> 854

<212> DNA

<213> Homo sapien

<400> 354

ccttttctag	tt	caccagtt	tt	ctgcaagg	at	gctgggtta	gg	gagtgtct	gcaggaggag	60
caagctgtaa	acca	aatcta	gga	acatag	gaa	acgagcc	agg	cacaggg	ctgggtgggccc	120
atcagggacc	acc	ctttggg	tt	gatatttt	gct	taatctg	cat	cttttga	gtaagatcat	180
ctggcagtag	aag	ctgttct	cc	aggtacat	tt	ctctagct	cat	gtacaaa	aacatcctga	240

```
<210> 355
<211> 676
<212> DNA
<213> Homo sapien
```

```
<210> 356
<211> 574
<212> DNA
<213> Homo sapien
```

```
<210> 357
<211> 393
<212> DNA
<213> Homo sapien
```

tttttttttt	tttttttttt	tttttttttt	tacagaatat	aratgcttta	tcaatgkact	60
taatatggkg	kcttggtcac	tatacttaaa	aatgcaccac	tcataaatat	ttaattcagc	120
aagccacaac	caaracttga	ttttatcaac	aaaaacccct	aaatataaac	ggsaaaaaag	180
atagatatata	ttattccagt	ttttttaaaa	cttaaaarat	attccattgc	cgaattaara	240
araarataag	tggttatatg	aaagaagggc	attcaagcac	actaaaraaa	cctgaggkaa	300
gcataatctg	tacaaaatta	aactgtcctt	tttggcattt	taacaaattt	gcaacgktct	360
tttttttctt	tttctgtttt	tttttttttt	tac			393

<210> 358
 <211> 630
 <212> DNA
 <213> Homo sapien

<400> 358

acagggtaaa	caggaggatc	cttgctctca	cggagcttac	attctagcag	gaggacaata	60
ttaatgttta	taggaaaatg	atgagtttat	gacaaaggaa	gtagatagt	ttttacaaga	120
gcatagagta	gggaagctaa	tccagcacag	ggaggtcaca	gagacatccc	taaggaaagt	180
gaglttaaac	tgagagaagc	aagtgcctaa	actgaaggat	gtgttgaaga	agaagggaga	240
gtagaacaat	ttgggcagag	ggaaccttat	agaccttaag	gtgggaaggt	tcaaagaact	300
gaaagagagc	tagaacagct	ggagccgttc	tccggtgtaa	agaggagtca	aagagataag	360
attaaagatg	tgaagattaa	gatcttggtg	gcattcaggg	attggcactt	ctacaagaaa	420
tactgaagg	gagtaatgtg	acattacttt	tcacttcagg	atggccattc	taactccagg	480
gggtagactg	gactaggtaa	gactggaggc	aggtagacct	cttctaaggc	ctgcgatagt	540
gaaagacaaa	aataagtggg	gaaattcagg	ggatagtga	aatcagtagg	acttaatgag	600
caagccagag	gttctctcac	aacaaccagt				630

<210> 359
 <211> 620
 <212> DNA
 <213> Homo sapien

<400> 359

acagcattcc	aaaatataca	tctagagact	aarrgtaaat	gctctatagt	gaagaagtaa	60
taattaaaaa	atgctactaa	tatagaaaat	ttataatcag	aaaaataaat	attcagggag	120
ctcaccagaa	gaataaagt	ctctgccagt	tattaaagga	ttactgctgg	tgaattaaat	180
atggcattcc	ccaagggaaa	tagagagatt	cttctggatt	atgttcaata	ttattttcac	240
aggattaact	gttttaggaa	cagatataaa	gcttcgccac	ggaagagatg	gacaaagcac	300
aaagacaaca	tgatacctta	ggaagcaaca	ctaccctttc	aggcataaaa	tttgagagaa	360
tgcaacatta	tgcttcatga	ataatatgta	gaaagaaggt	ctgatgaaaa	tgacatcctt	420
aatgtaagat	aactttataa	gaattctggg	tcaaataaaa	ttctttgaag	aaaacatcca	480
aatgtcattg	acttatcaaa	tactatcttg	gcatataacc	tatgaaggca	aaactaaaca	540
aacaaaaagc	tcacaccaaa	caaaaccatc	aacttatttt	gtattctata	acatacgaga	600
ctgtaagat	gtgacagtgt					620

<210> 360
 <211> 431
 <212> DNA
 <213> Homo sapien

<400> 360

aaaaaaaaaa	agccagaaca	acatgtgata	gataaatatga	ttggctgcac	acttccagac	60
tgatgaatga	tgaacgtgat	ggactattgt	atggagcaca	tcttcagcaa	gagggggaaa	120
tactcatcat	ttttggccag	cagttgtttg	atcaccaaac	atcatgccag	aatactcagc	180
aaaccttctt	agctcttgag	aagtcaaagt	ccgggggaat	ttattcctgg	caattttaat	240

cccgcctccag attccctcag acctttgccg gtcccattat tggctctggt ggt

653

<210> 364
<211> 401
<212> DNA
<213> Homo sapien

<400> 364

actagaggaa	agacgttaaa	ccactctact	accacttgtg	gaactctcaa	agggtaaatg	60
acaaagccaa	tgaatgactc	taaaaacaat	atttacattt	aatggtttgt	agacaataaa	120
aaaacaagg	ggatagatct	agaattgtaa	cattttaaga	aaaccatagc	atttgacaga	180
tgagaaaag	caattataga	tgcaaagtta	taactaaact	actatagtag	taaagaaata	240
catttcacac	ccttcatata	aattcactat	cttggcttga	ggcactccat	aaaatgtatc	300
acgtgcatag	taaatcttta	tatttgctat	ggcgttgac	tagaggactt	ggactgcaac	360
aagtggatgc	gcggaaaatg	aaatcttctt	caatagccca	g		401

<210> 365
<211> 356
<212> DNA
<213> Homo sapien

<400> 365

ccagtgtcat	atttgggctt	aaaatttcaa	gaagggcact	tcaaattggct	ttgcatttgc	60
atgtttcagt	gctagagcgt	aggaatagac	cctggcgctc	actgtgagat	gttcttcagc	120
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<210> 366
<211> 1851
<212> DNA
<213> Homo sapien

<400> 366

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<210> 367

<211> 668

<212> DNA

<213> Homo sapien

<400> 367

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acrtataag	agcagtgtt	tggccattaa	tttatctttc	atrrtagaca	gcrtagtgga	180
gagtgggtatt	tccatactca	tctggaatat	ttggatcagt	gccatgttcc	agcaacatta	240
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catatcttag	gaattcaaaa	taacattcca	cagctttcac	caactagtta	tatttaaagg	360
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ctactgcata	cctttatcag	agctgtcctc	tttttgttgt	caaggacatt	aagttgacat	480
cgtctgtcca	gcaggagttt	tactacttct	gaattcccat	tggcagaggc	cagatgtaga	540
gcagtccat	gagagtgaga	agacttttta	ggaaattgta	gtgcactagc	tacagccata	600
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<210> 368

<211> 1512

<212> DNA

<213> Homo sapien

<400> 368

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tccatgccgg	ctgcttcttc	tgtgaagaag	ccatttggtc	tcaggagcaa	gatgggcaag	300
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actccaagaa	aagttaaaca	tgtttcagtg	aatagagatc	ctgctccttt	ggcaagttcc	1440
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<210> 369
 <211> 1853
 <212> DNA
 <213> Homo sapien

<400> 369

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<210> 370
 <211> 2184
 <212> DNA
 <213> Homo sapien

<400> 370

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tgtgtctgtt gagatgctta tgtgactttg cttttaattc tgtttatgtg attatcacat      240
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ctgcggcagc ttcgggataa cttgaggctg catcactggg gaagaaacac aytccctgtcc      360
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<210> 371

<211> 1855

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1855)

<223> n = A,T,C or G

<400> 371

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gccgcccccg cataaccgtc agactggcct gtaacggctt gcaggcgcac gccgcacgcg      180
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acatgtttca	gtgaatagag	atcctgctcc	tttggcaagt	tcctaaaaaa	cagtaataga	1800
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<210> 372

<211> 1059

<212> DNA

<213> Homo sapien

<400> 372

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gcgcttgrgg	agactmcgat	gacagygcc	tcctggagcc	caggtaccac	gtccgtggag	180
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<210> 373

<211> 1155
 <212> DNA
 <213> Homo sapien

<400> 373

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gtcagccttc	tacttgagca	aaatattgat	gtatcttctc	aagatctatc	tggacagacg	1020
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<210> 374
 <211> 2000
 <212> DNA
 <213> Homo sapien

<400> 374

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ggagactacg	atgacagtgc	cttcatggag	cccagggtacc	acgtccgtgg	agaagatctg	420
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<210> 375

<211> 2040

<212> DNA

<213> Homo sapien

<400> 375

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ctcagggaca	ctgacgtgaa	caagaaggac	aagcaaaaaga	ggactgctct	acatctggcc	540
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gaaaagcaga	tagaagtgg	tgaaaaaatg	aattctgagc	tttctcttag	ttgtaagaaa	1920
gaaaagacga	tcttgcagta	aaatagtacg	ttgcgggaag	aaattgccat	gctaagactg	1980
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<210> 376
 <211> 329
 <212> PRT
 <213> Homo sapien

<400> 376

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Glu	Tyr	Thr	Ile	Val	His	Ala	Ser	Phe	Ile	Ser	Cys	Ile	Ser	Ser	Ser
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Leu	Asp	Gly	Gln	Gly	Glu	Arg	Gln	Glu	Gln	Arg	Gly	His	Phe	Trp	Arg
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Pro	Gln	Arg	Leu	Leu	Cys	Glu	Asp	Ala	Trp	Glu	Gln	Glu	Val	Gln	Val
65					70				75						80
Val	Leu	Pro	Leu	Leu	Pro	Leu	Leu	Gln	Gly	Ser	Gly	Lys	Ser	Asn	Val
			85					90						95	
Val	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe	Met	Asp	Pro	Arg	Tyr
			100					105					110		
His	Val	His	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His	Arg	Ala	Ala	Trp	Trp
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Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met	Leu	Arg	Asp	Thr	Asp
	130					135					140				
Val	Asn	Lys	Arg	Asp	Lys	Gln	Lys	Arg	Thr	Ala	Leu	His	Leu	Ala	Ser
145					150				155						160
Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Val	Leu	Asp	Arg	Arg	Cys
			165					170						175	
Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr	Ala	Leu	Thr	Lys	Ala
		180					185						190		
Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met	Leu	Leu	Glu	His	Gly
	195						200					205			
Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn	Thr	Thr	Leu	His	Tyr
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Ala	Val	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys	Ala	Leu	Leu	Leu	Tyr
225					230				235						240
Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly	Leu	Thr	Pro	Leu	Leu
			245						250					255	
Leu	Gly	Ile	His	Glu	Gln	Lys	Gln	Gln	Val	Val	Lys	Phe	Leu	Ile	Lys
		260					265						270		
Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr	Gly	Arg	Thr	Ala	Leu
	275					280						285			
Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile	Val	Ser	Pro	Leu	Leu
	290					295					300				
Glu	Gln	Asn	Val	Asp	Val	Ser	Ser	Gln	Asp	Leu	Glu	Arg	Arg	Pro	Glu
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<210> 377
 <211> 148
 <212> PRT
 <213> Homo sapien

<220>
 <221> VARIANT
 <222> (1)...(148)
 <223> Xaa = Any Amino Acid

<400> 377

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			20					25					30		
Asp	Leu	Ile	Val	Met	Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Xaa	Asp	Lys
		35					40					45			
Gln	Lys	Arg	Thr	Ala	Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu
	50					55					60				
Val	Val	Lys	Leu	Xaa	Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp
65					70					75					80
Asn	Lys	Lys	Arg	Thr	Ala	Leu	Xaa	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp
				85					90					95	
Glu	Cys	Ala	Leu	Met	Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro
			100					105					110		
Asp	Glu	Tyr	Gly	Asn	Thr	Thr	Leu	His	Tyr	Ala	Xaa	Tyr	Asn	Glu	Asp
		115					120					125			
Lys	Leu	Met	Ala	Lys	Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser
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145															

<210> 378
 <211> 1719
 <212> PRT
 <213> Homo sapien

<400> 378

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			20					25					30		
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp
		35				40						45			
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp
	50					55					60				
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val
65					70					75					80
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn
				85					90					95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser
			100					105					110		
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe
		115					120					125			
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
	130					135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155					160
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala

				165					170					175		
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu	
			180					185					190			
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr	
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Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met	
	210					215					220					
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn	
225					230					235					240	
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys	
				245					250					255		
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly	
			260					265					270			
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val	
		275					280					285				
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr	
	290					295					300					
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile	
305					310					315					320	
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu	
				325					330					335		
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val	
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Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile	
		355					360					365				
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Asn	Val	Ser	Arg	Thr	Arg	Asn	Lys	
	370				375						380					
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Ser	Val	Lys	Lys	Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	
				405					410					415		
Cys	Arg	Cys	Phe	Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	
			420					425					430			
Thr	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	
		435					440					445				
Met	Gly	Lys	Trp	Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	
	450					455					460					
Lys	Ser	Asn	Val	Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	
465					470					475					480	
Thr	Leu	Arg	Asn	Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	
				485					490					495		
Cys	Arg	Gly	Ser	Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	
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Gln	Ser	Gln	Leu	Pro	Arg	Thr	His	Met	Val	Val	Glu	Val	Asp	Ser	Met			
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Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe	Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys			
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Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr			
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Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Arg	His	Cys	Phe	Pro	Cys	Cys			
1105						1110						1115						1120
Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val	Gly	Ala	Ser	Gly	Asp	His	Asp	Asp			
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Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn	Lys	Met	Gly	Lys	Trp	Cys	Cys	His			
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Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp			
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Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe	Met	Glu	Pro	Arg	Tyr	His	Val	Arg			
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Gly	Glu	Asp	Leu	Asp	Lys	Leu	His	Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val			
1185						1190						1195						1200
Pro	Arg	Lys	Asp	Leu	Ile	Val	Met	Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys			
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Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala	Leu	His	Leu	Ala	Ser	Ala	Asn	Gly			
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Asn	Ser	Glu	Val	Val	Lys	Leu	Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn				
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Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr	Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys			
					1250						1255						1260	
Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met	Leu	Leu	Glu	His	Gly	Thr	Asp	Pro			
1265						1270						1275						1280
Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn	Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr			
					1285						1290						1295	
Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys	Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp			
					1300						1305						1310	
Ile	Glu	Ser	Lys	Asn	Lys	His	Gly	Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val			
					1315						1320						1325	
His	Glu	Gln	Lys	Gln	Gln	Val	Val	Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala			
					1330						1335						1340	
Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr	Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala			
1345						1350						1355						1360
Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile	Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn			
					1365						1370						1375	
Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu	Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr			
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Ala	Val	Ser	Ser	His	His	His	Val	Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr			
					1395						1400						1405	
Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu			
					1410						1415						1420	
Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly			
1425						1430												

Asn	Asn	Val	Gly	Leu	Leu	Glu	Asn	Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	1460	1465	1470
			1475													1480	1485	
Asn	Gly	Asp	Asn	Gly	Leu	Ile	Pro	Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu			
			1490													1495	1500	
Asn	Gln	Gln	Phe	Pro	Asp	Asn	Glu	Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys			
																1510	1515	1520
Glu	Leu	Val	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser			
																1525	1530	1535
Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu			
																1540	1545	1550
Ser	Gln	Arg	Leu	Glu	Gly	Ser	Glu	Asn	Gly	Gln	Pro	Glu	Lys	Arg	Ser			
																1555	1560	1565
Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp	Arg	Glu	Leu	Glu	Asn	Phe			
																1570	1575	1580
Met	Ala	Ile	Glu	Glu	Met	Lys	Lys	His	Gly	Ser	Thr	His	Val	Gly	Phe			
																1585	1590	1595
Pro	Glu	Asn	Leu	Thr	Asn	Gly	Ala	Thr	Ala	Gly	Asn	Gly	Asp	Asp	Gly			
																1605	1610	1615
Leu	Ile	Pro	Pro	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Ser	Gln	Gln	Phe	Pro			
																1620	1625	1630
Asp	Thr	Glu	Asn	Glu	Glu	Tyr	His	Ser	Asp	Glu	Gln	Asn	Asp	Thr	Gln			
																1635	1640	1645
Lys	Gln	Phe	Cys	Glu	Glu	Gln	Asn	Thr	Gly	Ile	Leu	His	Asp	Glu	Ile			
																1650	1655	1660
Leu	Ile	His	Glu	Glu	Lys	Gln	Ile	Glu	Val	Val	Glu	Lys	Met	Asn	Ser			
																1665	1670	1675
Glu	Leu	Ser	Leu	Ser	Cys	Lys	Lys	Glu	Lys	Asp	Ile	Leu	His	Glu	Asn			
																1685	1690	1695
Ser	Thr	Leu	Arg	Glu	Glu	Ile	Ala	Met	Leu	Arg	Leu	Glu	Leu	Asp	Thr			
																1700	1705	1710
Met	Lys	His	Gln	Ser	Gln	Leu												
																1715		

<210> 379

<211> 656

<212> PRT

<213> Homo sapien

<400> 379

Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys	1	5	10	15
Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe	20	25	30	
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp	35	40	45	
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	50	55	60	
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val	65	70	75	80
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn	85	90	95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	100	105	110	

Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
 130 135 140
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
 165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
 210 215 220
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu
 370 375 380
 Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys
 385 390 395 400
 Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu
 405 410 415
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn
 420 425 430
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro
 435 440 445
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu
 450 455 460
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu
 465 470 475 480
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp
 485 490 495
 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu
 500 505 510
 Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys
 515 520 525
 Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly
 530 535 540

Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser
 545 550 555 560
 Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr
 565 570 575
 His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln
 580 585 590
 Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln
 595 600 605
 Ile Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys
 610 615 620
 Lys Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile
 625 630 635 640
 Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu
 645 650 655

<210> 380

<211> 671

<212> PRT

<213> Homo sapien

<400> 380

Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
 1 5 10 15
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
 20 25 30
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
 35 40 45
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
 130 135 140
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
 165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
 210 215 220
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly

<210> 381
<211> 251

<212> DNA

<213> Homo sapien

<400> 381

ggagaagcgt	ctgctggggc	aggaaggggt	ttccctgccc	tctcacctgt	ccctcaccaa	60
ggtaacatgc	ttcccctaag	ggtatcccaa	cccaggggcc	tcaccatgac	ctctgagggg	120
ccaatatccc	aggagaagca	ttggggagtt	gggggcaggt	gaaggaccca	ggactcacac	180
atcctggggc	tccaaggcag	aggagagggg	cctcaagaag	gtcaggagga	aaatccgtaa	240
caagcagtca	g					251

<210> 382

<211> 3279

<212> DNA

<213> Homo sapiens

<400> 382

cttcctgcag	cccccatgct	ggtgaggggc	acgggcagga	acagtggacc	caacatggaa	60
atgctggagg	gtgtcaggaa	gtgatcgggc	tctggggcag	ggaggagggg	tggggagtgt	120
cactgggagg	ggacatcctg	cagaaggtag	gagtgcagca	acacccgctg	caggggaggg	180
gagagccctg	cggcacctgg	gggagcagag	ggagcagcac	ctgcccaggc	ctgggaggag	240
gggcctggag	ggcgtgagga	ggagcgaggg	ggctgcatgg	ctggagttag	ggatcagggg	300
cagggcgcgga	gatggcctca	cacaggggaag	agagggcccc	tcctgcaggg	cctcacctgg	360
gccacaggag	gacactgctt	ttcctctgag	gagtcaggag	ctgtggatgg	tgctggacag	420
aagaaggaca	gggcctggct	caggtgtcca	gaggctgtcg	ctggcttccc	tttgggatca	480
gactgcaggg	agggagggcg	gcaggggtgt	ggggggagtg	acgatgagga	tgacctgggg	540
gtggctccag	gccttgcccc	tgccctggggc	ctcaccacgc	ctccctcaca	gtctcctggc	600
cctcagtcctc	tccccctccac	tccatccctcc	atctggcctc	agtgggtcat	tctgatcact	660
gaactgacca	taccagcccc	tgcccaacggc	cctccatggc	tccccaatgc	cctggagagg	720
ggacatctag	tcagagagta	gtcctgaaga	ggtggcctct	gcgatgtgcc	tgtgggggca	780
gcatectgca	gatggtcccc	gccctcatcc	tgctgacctg	tctgcaggga	ctgtcctcct	840
ggaccttgcc	ccttgtgcag	gagctggacc	ctgaagtcct	ctccccatag	gccaagactg	900
gagccttggt	ccctctgttg	gactccctgc	ccatattctt	gtgggagtgg	gttctggaga	960
catttctgtc	tgttcttagg	agctgggaat	tgctctcagt	catctgcctg	cgcggttctg	1020
agatagtgag	ttgcctaggg	agttattggg	gccaatcttt	ctcactgtgt	ctctcctcct	1080
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atcatggggc	cctgagccat	gtgccctgcc	tgaaaagcct	gctgtgtaca	ccaaggtggt	1200
gcattaccgg	aagtggatca	aggacaccat	cgcagccaac	ccctgagtgc	ccctgtccca	1260
cccctacctc	tagtaaattt	aagtccacct	cacgttctgg	catcacttgg	cctttctgga	1320
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ctctgaagac	ttctcgctca	gtttcagtga	ggacacacac	aaagacgtgg	gtgacctgt	1560
tgtttgtggg	gtgcagagat	gggaggggtg	gggcccaccc	tggaagagtg	gacagtgaca	1620
caaggtggac	actctctaca	gatcactgag	gataagctgg	agccacaatg	catgaggcac	1680
acacacagca	aggttgacgc	tgtaaacata	gccacgctg	tcctgggggc	actgggaagc	1740
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tagggggaga	aactgaaagc	tgattaatta	caggaggttt	gttcagggtc	cccaaaccac	1860
cgtcagatth	gatgatttcc	tagcaggact	tacagaaata	aagagctatc	atgctgtggt	1920
ttattatggt	ttgttacatt	gataggatac	atactgaaat	cagcaaacaa	aacagatgta	1980
tagattagag	tgtggagaaa	acagaggaaa	acttgcagtt	acgaagactg	gcaacttggc	2040
tttactaagt	tttcagactg	gcaggaagtc	aaacctatta	ggctgaggac	cttgtggagt	2100
gtagctgato	cagctgatag	aggaactagc	caggtggggg	cctttccctt	tggatggggg	2160
gcataatccg	cagttattct	ctccaagtgg	agacttacgg	acagcatata	attctccctg	2220
caaggatgta	tgataatatg	tacaaagtaa	ttccaactga	ggaagctcac	ctgatcctta	2280

```

gtgtccaggg tttttactgg ggggtctgtag gacgagtatg gagtacttga ataattgacc 2340
tgaagtcctc agacctgagg ttccctagag ttcaaacaga tacagcatgg tccagagtcc 2400
cagatgtaca aaaacagggg ttcattcaca atcccatctt tagcatgaag ggtctggcat 2460
ggcccaaggc cccaagtata tcaaggcact tgggcagAAC atgccaagga atcaaattgtc 2520
atctcccagg agttattcaa ggggtgagccc ttactttggg atgtacaggc tttgagcagt 2580
gcagggctgc tgagtcaacc ttttattgta caggggatga gggaaagggg gaggatgagg 2640
aagccccctt ggggatttgg tttggtcttg tgatcagggt gtctatgggg ctatccctac 2700
aaagaagaat ccagaaatag gggcacattg aggaatgata ctgagcccaa agagcattca 2760
atcattgttt tatttgocct cttttcacac cattggtgag ggagggatta ccaccctggg 2820
gttatgaaga tgggtgaaca cccacacat agcaccggag atatgagatc aacagtttct 2880
tagccataga gattcacagc ccagagcagg aggacgctgc acaccatgca ggatgacatg 2940
ggggatgcgc tcgggatttg tgtgaagaag caaggactgt tagaggcagg ctttatagta 3000
acaagacggt ggggcaaact ctgatttccg tgggggaatg tcatggtctt gctttactaa 3060
gttttgagac tggcaggtag tgaaactcat taggctgaga accttgtgga atgcagctga 3120
cccagctgat agaggaagta gccagggtgg agcctttccc agtgggtgtg ggacatatct 3180
ggcaagattt tgtggcactc ctggttacag atactggggc agcaaataaa actgaatctt 3240
gttttcagac cttaaaaaaa aaaaaaaaaa aaaagtttt 3279

```

<210> 383

<211> 154

<212> PRT

<213> Homo sapiens

<400> 383

```

Met Ala Gly Val Arg Asp Gln Gly Gln Gly Ala Arg Trp Pro His Thr
                    5                      10                      15

```

```

Gly Lys Arg Gly Pro Leu Leu Gln Gly Leu Thr Trp Ala Thr Gly Gly
                20                      25                      30

```

```

His Cys Phe Ser Ser Glu Glu Ser Gly Ala Val Asp Gly Ala Gly Gln
                35                      40                      45

```

```

Lys Lys Asp Arg Ala Trp Leu Arg Cys Pro Glu Ala Val Ala Gly Phe
                50                      55                      60

```

```

Pro Leu Gly Ser Asp Cys Arg Glu Gly Gly Arg Gln Gly Cys Gly Gly
                65                      70                      75                      80

```

```

Ser Asp Asp Glu Asp Asp Leu Gly Val Ala Pro Gly Leu Ala Pro Ala
                85                      90                      95

```

```

Trp Ala Leu Thr Gln Pro Pro Ser Gln Ser Pro Gly Pro Gln Ser Leu
                100                      105                      110

```

```

Pro Ser Thr Pro Ser Ser Ile Trp Pro Gln Trp Val Ile Leu Ile Thr
                115                      120                      125

```

```

Glu Leu Thr Ile Pro Ser Pro Ala His Gly Pro Pro Trp Leu Pro Asn
                130                      135                      140

```

```

Ala Leu Glu Arg Gly His Leu Val Arg Glu
                145                      150

```

<210> 384
 <211> 557
 <212> DNA
 <213> Homo sapiens

<400> 384
 ggatcctcta gagcgccgc ctactactac taaattcgcg gccgcgtcga cgaagaagag 60
 aaagatgtgt ttgttttgg actctctgtg gtcccttcca atgctgtggg tttccaacca 120
 ggggaagggt cccttttgcg ttgccaagtg ccataaccat gagcactact ctaccatggg 180
 tctgcctcct ggccaagcag gctggtttgc aagaatgaaa tgaatgattc tacagctagg 240
 acttaacctt gaaatggaaa gtcttgcaat ccattttgca ggatccgtct gtgcacatgc 300
 ctctgtagag agcagcattc ccagggacct tggaaacagt tggcactgta aggtgcttgc 360
 tccccaaagac acatcctaaa aggtgttgta atggtgaaaa cgtcttcctt ctttattgcc 420
 ccttcttatt tatgtgaaca actgtttgtc tttttttgta tcttttttaa actgtaaagt 480
 tcaattgtga aaatgaatat catgcaaata aattatgcga ttttttttcc aaagtaaaaa 540
 aaaaaaaaaa aaaaaaa 557

<210> 385
 <211> 337
 <212> DNA
 <213> Homo sapiens

<400> 385
 ttcccagggt atgtgcgagg gaagacacat ttactatcct tgatggggct gattccttta 60
 gtttctctag cagcagatgg gttaggagga agtgacccaa gtggttgact cctatgtgca 120
 tctcaaagcc atctgctgtc ttcgagtaag gacacatcat cactcctgca ttgttgatca 180
 aaacgtggag gtgcttttcc tcagctaaga agcccttagc aaaagctcga atagacttag 240
 tatcagacag gtccagtttc cgcaccaaca cctgctggtt ccctgtcgtg gtctggatct 300
 ctttgccac caattcccc ttttccacat cccggca 337

<210> 386
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 386
 gggcccgtc cgggccagg cccgcctcg cgagtccctc tccccgggtg cctgcccgcga 60
 gcccgctcgg ccagaggggt gggcgcgagg ctgcctctac cggctggcgg ctgtaactca 120
 gcgaccttgg ccgaaggct ctagcaagga cccaccgacc ccagccgcgg cggcgggcggc 180
 gcggactttg cccgggtgtgt gggcgcgagc ggactgcgtg tccgcggacg ggcagcgaag 240
 atgttagcct tcgctgccag gaccgtggac cgatcccagg gctgtggtgt aacctcagcc 300

<210> 387
 <211> 537
 <212> DNA
 <213> Homo sapiens

<400> 387
 gggccgagtc gggcaccaag ggactctttg caggcttcct tcctcggatc atcaaggctg 60
 cccctcctg tgccatcatg atcagcacct atgagttcgg caaaagcttc ttccagaggc 120
 tgaaccagga ccggcttctg ggcggctgaa aggggcaagg aggcaaggac cccgtctctc 180
 ccacggatgg ggagagggca ggaggagacc cagccaagtg ccttttctc agcactgagg 240
 gagggggctt gtttcccttc cctcccggcg acaagctcca gggcagggct gtccctctgg 300

```

gcgggcccagc acttcctcag acacaacttc ttcctgctgc tccagtcgtg gggatcatca 360
cttaccaccacc ccccaagttc aagaccaaatt cttccagctg ccccttcgt gtttccctgt 420
gtttgctgta gctgggcatg tctccaggaa ccaagaagcc ctcagcctgg tgtagtctcc 480
ctgacccttg ttaattcctt aagtctaaag atgatgaact tcaaaaaaaaa aaaaaaa 537

```

<210> 388

<211> 520

<212> DNA

<213> Homo sapiens

<400> 388

```

aggataattt ttaaaccaat caaatgaaaa aaacaaacaa acaaaaaagg aaatgtcatg 60
tgaggttaaa ccagtttgca ttcccctaatt gtggaaaaag taagaggact actcagcact 120
gtttgaagat tgccctcttct acagcttctg agaatttgtt tatttcactt gcccaagtga 180
ggacccctc cccaacatgc cccagcccac ccctaagcat ggtcccttgt caccaggcaa 240
ccaggaaaact gctacttgtg gacctcacca gagaccagga gggtttggtt agctcacagg 300
acttccccca cccagaaga ttagcatccc atactagact catactcaac tcaactaggc 360
tcatactcaa ttgatggtta ttagacaatt ccatttcttt ctgggttatta taaacagaaa 420
atctttcctc ttctcattac cagtaaaggc tcttggtatc tttctgttg aatgatttct 480
atgaacttgt cttattttta tgggtgggtt ttttctggt 520

```

<210> 389

<211> 365

<212> DNA

<213> Homo sapiens

<400> 389

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cgttgcccc a gtttgacaga aggaaaggcg gagcttattc aaagtctaga gggagtggag 60
gaggttaaggc tggatttcag atctgcctgg ttccagccgc agtgtgccct ctgctcccc 120
aacgactttc caaataatct caccagcgcc ttccagctca ggcgtcctag aagcgtcttg 180
aagcctatgg ccagctgtct ttgtgttccc tctcaccgc ctgtcctcac agctgagact 240
cccaggaaac cttcagacta ctttctctg ccttcagcaa ggggcgttgc ccacattctc 300
tgagggtcag tggaagaacc tagactccca ttgctagagg tagaaagggg aagggtgctg 360
gggag 365

```

<210> 390

<211> 221

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(221)

<223> n = A,T,C or G

<400> 390

```

tgctcttcca tcttggcccc gacttctctg tcaggaaaagt ggggatggac cccatctgca 60
tacaaggntt ctcatgggtg tggaacatct ctgcttgccg tticaggaag gcctctggct 120
gctctangag tctgancnga nctgttgccc cantntgaca naaggaaagg cggagcttat 180
tcaaagtcta gagggagtgg aggagttaag gctggatttc a 221

```

<210> 391

<211> 325

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(325)

<223> n = A,T,C or G

<400> 391

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tggagcaggt cccgaggcct ccctagagcc tggggccgac tctgtgncga tgcangcttt 60
ctctcgcgcc cagcctggag ctgctcctgg catctaccaa caatcagncg aggcgagcag 120
tagccagggc actgctgcc aacagccagtc cnnataccat catgtnaccc ggtgngctct 180
naanttn gat ntccanagcc ctacccatcn tagttctgct ctcccaccgg ntaccagccc 240
cactgcccag gaatcctaca gccagtagcc tgtcccagcg tctctaccta ccagtagcat 300
gagacctccg gctactacta tgacc 325
```

<210> 392

<211> 277

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(277)

<223> n = A,T,C or G

<400> 392

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agtctcactt nggcnagn gn ctcctacttg agtctcttcc ccggcctggn ccagtngnaa 120
antaccanga accgncatgn cttaanaacn ncctgggttn tgggttnntc aatgactgca 180
tgacagtgcac caccctgtcc actacgtgat gctgtaggat taaagtctca cagtgggcgg 240
ctgaggatac agcgccgcgt cctgtgttgc tggggaa 277
```

<210> 393

<211> 566

<212> DNA

<213> Homo sapiens

<400> 393

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actagtccag tgtggtggaa ttgcgggccg cgtcgacgga caggtcagct gtctggctca 60
gtgatctaca ttctgaagtt gtctgaaaat gtcttcatga tttaaattcag cctaaacggt 120
ttgcggggaa cactgcagag acaatgctgt gagtttccaa ccttagocca tctgcgggca 180
gagaaggctc agtttgtcca tcagcattat catgatataa ggactgggta cttgggtaag 240
gaggggtcta ggagatctgt cccttttaga gacaccttac ttataatgaa gtatttgga 300
gggtgggttt caaaagtaga aatgtcctgt attccgatga tcatcctgta aacattttat 360
catttattaa tcatccctgc ctgtgtctat tattatattc atatctctac gctggaaact 420
ttctgcctca atgtttactg tgcctttgtt ttgtctagtt tgtgttggtg aaaaaaaaaa 480
cattctctgc ctgagtttta atttttgtcc aaagttattt taatctatac aattaaaagc 540
ttttgcctat caaaaaaaaaa aaaaaa 566
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<210> 394

<211> 384

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(384)
 <223> n = A,T,C or G

<400> 394
 gaacatacat gtcccggcac ctgagctgca gtctgacatc atcgccatca cgggcctcgc 60
 tgcaaattng gaccgggcca aggctggact gctggagcgt gtgaaggagc tacaggccna 120
 gcaggaggac cgggcttttaa ggagtttttaa gctgagtgtc actgtagacc ccaaatacca 180
 tccaagatt atcgggagaa agggggcagt aattacccaa atccggttg agcatgacgt 240
 gaacatccag tttcctgata aggacgatgg gaaccagccc caggaccaa ttaccatcac 300
 agggtagcaa aagaacacag aagctgccag ggatgctata ctgagaattg tgggtgaact 360
 tgagcagatg gtttctgagg acgt 384

<210> 395
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 395
 ggcaaaactg tgtgacctca ataagacctc gcagatccaa ggtcaagtat cagaagtgac 60
 tctgaccttg gactccaaga cctacatcaa cagcctggct atattagatg atgagccagt 120
 tatcagaggt ttcattcattg cggaaattgt ggagtctaag gaaatcatgg cctctgaagt 180
 attcacgtct ttccagtacc ctgagttctc tatagagttg cctaacacag gcagaattgg 240
 ccagctactt gtctgcaatt gtatcttcaa gaataccctg gccatccctt tgactgacgt 300
 caagttctct ttggaaagcc tgggcatctc ctactacag acctctgacc atgggacggt 360
 gcagcctggt gagaccatcc aatcccaaat aaaatgcac 399

<210> 396
 <211> 403
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(403)
 <223> n = A,T,C or G

<400> 396
 tggagtntc agtgcaaaca agccataaag cttcagtagc aaattactgt ctcacagaaa 60
 gacattttca acttctgctc cagctgctga taaaacaaat catgtgttta gcttgactcc 120
 agacaaggac aacctgttcc ttcataactc tctagagaaa aaaaggagtt gttagtagat 180
 actaaaaaaaa gtggatgaat aatctggata tttttcctaa aaagattcct tgaaacacat 240
 taggaaaaatg gagggcctta tgatcagaat gctagaatta gtccattgtg ctgaagcagg 300
 gtttagggga gggagtggag gataaaaagaa ggaaaaaaag aagagtgaga aaacctattt 360
 atcaaagcag gtgctatcac tcaatgttag gccctgctct ttt 403

<210> 397
 <211> 100
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(100)
 <223> n = A,T,C or G

<400> 397
 actagtncag tgtggtggaa ttcgcggccg cgtcgaccta naanccatct ctatagcaaa 60
 tccatccccg ctctggttg gtnacagaat gactgacaaa 100

<210> 398
 <211> 278
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(278)
 <223> n = A,T,C or G

<400> 398
 gcggccgcgt cgacagcagt tccgccagcg ctgcgccctg ggtggggatg tgctgcacgc 60
 ccaoctggac atctggaagt cagcggcctg gatgaaagag cggacttcac ctggggcgat 120
 tcaactactgt gcctcgacca gtgaggagag ctggaccgac agcgagggtg actcatcatg 180
 ctccgggcag cccatccacc tgtggcagtt cctcaaggag ttgctactca agccccacag 240
 ctatggccgc ttcattangt ggctcaacaa ggagaagg 278

<210> 399
 <211> 298
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(298)
 <223> n = A,T,C or G

<400> 399
 acggagggtgg aggaagcgc cctgggatcg anaggatggg tcttgnatt gaccncctcn 60
 ggggtgccng catggagcgc atgggcgcgg gcctgggcca cggcatggat cgcgtgggct 120
 ccgagatcga gcgcattggc ctggatcatg accgcatggg ctccgtggag cgcattgggct 180
 ccggcattga gcgcattggc ccgctgggcc tcgaccacat ggcctccanc attgancgca 240
 tgggccagac catggagcgc attggctctg gcgtggagcn catgggtgcc ggcatggg 298

<210> 400
 <211> 548
 <212> DNA
 <213> Homo sapiens

<400> 400
 acatcaacta cttcctcatt ttaaggtatg gcagttccct tcatccctt ttctgcctt 60
 gtacatgtac atgtatgaaa tttccttctc ttaccgaact ctctccacac atcacaagg 120
 caaagaacca cacgcttaga agggtaagag ggcaccctat gaaatgaaat ggtgatttct 180
 tgagtctctt ttttccacgt ttaaggggac atggcaggac ttagagttgc gagttaagac 240
 tgcagagggc tagagaatta tttcatacag gctttgaggc caccatgtc acttatccc 300
 tataccctct caccatcccc ttgtctactc tgatgcccc aagatgcaac tgggcagcta 360
 gttggcccca taattctggg cttttgttgt ttgttttaac tacttgggca tcccaggaag 420


```
ctttccagtg atctcctacc atgggcccc ctcttgggat caagccccctc ccaggccctg 480
tccccagccc ctcttgcccc agcccacccg cttgccttgg tgctcagccc tcccattggg 540
agcaggtt 548
```

```
<210> 401
<211> 355
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(355)
<223> n = A,T,C or G
```

```
<400> 401
actgtttcca tggtatgttt ctacacattg ctacctcagt gtccttgga acttagcttt 60
tgatgtctcc aagtagtcca ccttcattta actctttgaa actgtatcat ctttgccaag 120
taagagtggg ggcctatttc agctgctttg acaaaatgac tggctcctga cttaacgttc 180
tataaatgaa tgtgctgaag caaagtgtcc atgggtggcg cgaagaagan aaagatgtgt 240
tttgttttgg actctctgtg gtcccttcca atgctgnggg tttccaacca ggggaagggt 300
cccttttgca ttgccaagtg ccataaccat gagcactact ctaccatggn tctgc 355
```

```
<210> 402
<211> 407
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(407)
<223> n = A,T,C or G
```

```
<400> 402
atggggcaag ctggataaag aaccaagacc cactggagta tgctgtcttc aagaaaccca 60
tctcacatgc ggtggcatac ataggctcaa aataaaggaa tggagaaaaa tatttcaagc 120
aaatggaaaa cagaaaaaag cagggtgttc actcctactt tctgacaaaa cagactatgc 180
gaataaagat aaaaaagaga aggacattac aaaggtggtc ctgacctttg ataaatctca 240
ttgcttgata ccaacctggg ctgttttaat tgcccaaacc aaaaggataa tttgctgagg 300
ttgtggagct tctcccctgc agagagtccc tgatctccca aaatttggtt gagatgtaag 360
gntgattttg ctgacaactc cttttctgaa gttttactca tttccaa 407
```

```
<210> 403
<211> 303
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(303)
<223> n = A,T,C or G
```

```
<400> 403
cagtatttat agccnaactg aaaagctagt agcaggcaag tctcaaattcc aggcacccaaa 60
toctaagcaa gagccatggc atggtgaaaa tgcaaaagga gagtctggcc aatctacaaa 120
```

```

tagagaacaa gacctactca gtcatagaaca aaaaggcaga caccaacatg gatctcatgg 180
gggattggat attgtaatta tagagcagga agatgacagt gatcgtcatt tggcacaaca 240
tcttaacaac gaccgaaacc cattattttac ataaacctcc attcggtaac catgttgaaa 300
gga                                                    303

```

```

<210> 404
<211> 225
<212> DNA
<213> Homo sapiens

```

```

<400> 404
aagtgttaact tttaaaaaatt tagtggattt tgaaaattct tagaggaaag taaaggaaaa 60
attgttaatg cactcattta cctttacatg gtgaaagtcc tctcttgatc ctacaaacag 120
acattttcca ctcgtgtttc catagtgtgt aagtgtatca gatgtgttgg gcatgtgaat 180
ctccaagtgc ctgtgtaata aataaagtat ctttatttca ttcatt                    225

```

```

<210> 405
<211> 334
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(334)
<223> n = A,T,C or G

```

```

<400> 405
gagctgttat actgtgagtt ctactaggaa atcatcaaat ctgaggggtg tctggaggac 60
ttcaatacac ctccccccat agtgaatcag cttccagggg gtccagtccc tctccttact 120
tcatccccat cccatgccaa aggaagaccc tccctccttg gctcacagcc ttctctaggc 180
ttcccagtgc ctccaggaca gagtgggtta tgttttcagc tccatccttg ctgtgagtgt 240
ctggtgcggt tgtgcctcca gcttctgtc agtgcttcat ggacagtgtc cagcccatgt 300
cactctccac tctctcanng tggatccac ccct                    334

```

```

<210> 406
<211> 216
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G

```

```

<400> 406
tttcatacct aatgagggag ttganatnac atnnaaccag gaaatgcatg gatctcaang 60
gaaacaaaca cccaataaac tcggagtggc agactgacaa ctgtgagaca tgcacttgct 120
acnaaacaca aattttnatgt tgcacccttg tttctacacc tgtgggttat gacaaagaca 180
actgccaaag aatnttcaag aaggaggact gccant                    216

```

```

<210> 407
<211> 413
<212> DNA
<213> Homo sapiens

```

```

<400> 407
gctgacttgc tagtatcatc tgcattcatt gaagcacaag aacttcatgc cttgactcat 60
gtaaatgcaa taggattaaa aaataaattt gatatcacat ggaaacagac aaaaaatatt 120
gtacaacatt gcacccagtg tcagattcta cacctggcca ctcaggaagc aagagttaat 180
cccagaggtc tatgtcctaa tgtgttatgg caaatggatg tcatgcacgt accttcattt 240
ggaaaattgt catttgtcca tgtgacagtt gatacttatt cacatttcat atgggcaacc 300
tgccagacag gagaaagtct tcccatgtta aaagacattt attatcttgt tttcctgtca 360
tgggagttcc agaaaaagtt aaaacagaca atggggccagg ttctgtagta aag          413

```

```

<210> 408
<211> 183
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(183)
<223> n = A,T,C or G

```

```

<400> 408
ggagctngcc ctcaattcct ccatntctat gttancatat ttaatgtctt ttgnnattaa 60
tncttaacta gttaatcctt aaagggctan ntaatcctta actagtcctt ccattgtgag 120
cattatcctt ccagtattcn ccttctnttt tattttactcc ttcctggcta cccatgtact 180
ntt                                     183

```

```

<210> 409
<211> 250
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G

```

```

<400> 409
cccacgcatg ataagctctt tattttctgta agtcctgcta ggaaatcatc aaatctgacg 60
gtggtttggg ggacctgaac aaacctcctg taattaatca gctttcagtt tctcccccta 120
gtccctcctt caacaacata ggaggatcct ccccttcttt ctgctcacgg ccttatctag 180
gcttcccagt gccccagga cagcgtgggc tatgtttaca gcgcttcctt gctggggggg 240
ggccttatgc                                     250

```

```

<210> 410
<211> 306
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(306)
<223> n = A,T,C or G

```

```

<400> 410

```

```

ggctggtttg caagaatgaa atgaatgatt ctacagctag gacttaacct tgaaatggaa 60
agtcttgcaa tcccatttgc aggatccgtc tgtgcacatg cctctgtaga gagcagcatt 120
cccagggacc ttggaaacag ttggcactgt aagggtgctt ctccccaaga cacatcctaa 180
aagggtgttg aatggtgaaa accgcttcct tctttattgc cccttcttat ttatgtgaac 240
nactggttgg ctttttttgn atctttttta aactggaaa ttcaattgng aaaatgaata 300
tcntgc                                           306

```

```

<210> 411
<211> 261
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

```

```

<400> 411
agagatattn cttaggtnaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaattgtc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
cttctctcaa ggngaggcaa a                                           261

```

```

<210> 412
<211> 241
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(241)
<223> n = A,T,C or G

```

```

<400> 412
gttcaatggt acctgacatt totacaacac cccactcacc gatgtattcg ttgcccagtg 60
ggaacatacc agcctgaatt tggaaaaaat aattgtgttt cttgcccagg aaatactacg 120
actgactttg atggctccac aaacataacc cagtgtaaaa acagaagatg tggaggggag 180
ctgggagatt tcaactgggtta cattgaattc caaaactacc cangcaatta ccagccaac 240
a                                           241

```

```

<210> 413
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(231)
<223> n = A,T,C or G

```

```

<400> 413
aactcttaca atccaagtga ctcatctgtg tgcttgaatc ctttccactg tctcatctcc 60
ctcatccaag tttctagtac cttctctttg ttgtgaagga taatcaaact gaacaacaaa 120

```

aagtttactc tcttcatttg gaacctaaaa actctcttct tcttgggtct gagggctcca 180
agaatccttg aatcanttct cagatcattg gggacaccan atcaggaacc t 231

<210> 414
<211> 234
<212> DNA
<213> Homo sapiens

<400> 414
actgtccatg aagcactgag cagaagctgg aggcacaacg caccagacac tcacagcaag 60
gatggagctg aaaacataac cactctgtc ctggaggcac tgggaagcct agagaaggct 120
gtgagccaag gagggagggt cttccttttg catgggatgg ggatgaagta aggagaggga 180
ctggaccccc tggaagctga ttcactatgg ggggagggtg attgaagtcc tcca 234

<210> 415
<211> 217
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(217)
<223> n = A,T,C or G

<400> 415
gcataggatt aagactgagt atcttttcta cattctttta acttttctaag gggcacttct 60
caaaacacag accaggtagc aaatctccac tgctctaagg ntctcaccac cactttctca 120
cacctagcaa tagtagaatt cagtcctact tctgaggcca gaagaatggg tcagaaaaat 180
antggattat aaaaaataac aattaagaaa aataatc 217

<210> 416
<211> 213
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(213)
<223> n = A,T,C or G

<400> 416
atgcataatnt aaagganact gcctcgcttt tagaagacat ctggngctgct ctctgcatga 60
ggcacagcag taaagctctt tgattcccag aatcaagaac tctcccttc agactattac 120
cgaatgcaag gtggttaatt gaaggccact aattgatgct caaatagaag gatattgact 180
atattggaac agatggagtc tctactacaa aag 213

<210> 417
<211> 303
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(303)

<223> n = A,T,C or G

<400> 417

```
nagtcttcag gccatcagg gaagttcaca ctggagagaa gtcatacata tgtactgtat 60
gtgggaaagg ctttactctg agttcaaadc ttcaagccca tcagagagtc cacactggag 120
agaagccata caaatgcaat gagtgtggga agagcttcag gagggattcc cattatcaag 180
ttcatctagt ggtccacaca ggagagaaac cctataaatg tgagatatgt gggaagggct 240
tcantcaaag ttcgtatctt caaatccatc ngaaggncca cagtatanan aaacctttta 300
agt 303
```

<210> 418

<211> 328

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(328)

<223> n = A,T,C or G

<400> 418

```
tttttggcgg tgggtggggca gggacggggac angagtctca ctctgttgcc caggctggag 60
tgcacaggca tgatctcggc tcactacaac ccctgcctcc catgtccaag cgattcttgt 120
gcctcagcct tccctgtagc tagaattaca ggcacatgcc accacaccca gctagttttt 180
gtatttttag tagagacagg gtttcacccat gttggccagg ctggtctcaa actcctnacc 240
tcagnggtca ggctggtctc aaactcctga cctcaagtga tctgcccacc tcagcctccc 300
aaagtgctan gattacaggc cgtgagcc 328
```

<210> 419

<211> 389

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(389)

<223> n = A,T,C or G

<400> 419

```
cctcctcaag acggcctgtg gtccgcctcc cggcaaccaa gaagcctgca gtgccatattg 60
accctgagc catggactgg agcctgaaag gcagcgtaca ccctgctcct gatcttgctg 120
cttgtttctt ctctgtggct ccattcatag cacagttgtt gcaactgagga ttgtgcaggc 180
cgagcaaggc caagctggct caaagagcaa ccagtcaact ctgccacggg gtgccaggca 240
ccggttctcc agccaccaac ctactcgtc cccgcaaatg gcacatcagt tcttctaccc 300
taaaggtagg accaaagggc atctgctttt ctgaagtctt ctgctctatc agccatcacg 360
tggcagccac tcnngctgtg tcgacgcgg 389
```

<210> 420

<211> 408

<212> DNA

<213> Homo sapiens

<400> 420

```
gttctctcta actcctgcc aacacagctc tcttcaacat gagagctgca cccctcctcc 60
```

```

tggccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgacttttgg gtttcggcat ggagaccgaa 180
gtcccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gagtccata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg aagtgcctatg acaaacctgg caagcccg 408

```

```

<210> 421
<211> 352
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(352)
<223> n = A,T,C or G

```

```

<400> 421
gctcaaaaat ctttttactg atnggcatgg ctacacaatc attgactatt acggaggcca 60
gaggagaatg aggcctggcc tgggagccct gtgcctacta naagcacatt agattatcca 120
ttcactgaca gaacaggtct tttttgggtc cttcttctcc accacnatac acttgcagtc 180
ctccttcttg aagattcttt ggcagttgtc tttgtcataa cccacaggtg tagaaacaag 240
ggtgcaacat gaaatttctg tttcgtagca agtgcctgtc tcacaagttg gcangtctgc 300
cactccgagt ttattgggtg tttgtttcct ttgagatcca tgcatttcct gg 352

```

```

<210> 422
<211> 337
<212> DNA
<213> Homo sapiens

```

```

<400> 422
atgccaccat gctggcaatg cagcgggagg tcgaaggcct gcatatccag cccaagctgg 60
cgatgatcga cggcaaccgt tgcccgaagt tgccgatgcc agccgaagcg gtggtcaagg 120
gogatagcaa ggtgcggcgg atcgcggcgg cgtcaatcct ggccaaggct agccgtgatc 180
gtgaaatggc agctgtcgaa ttgatctacc cgggttatgg catcggcggg cataagggct 240
atccgacacc ggtgcacctg gaagccttgc agcggctggg gccgacgccg attcaccgac 300
gcttcttccg ccggtacggc tggcctatga aaattat 337

```

```

<210> 423
<211> 310
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(310)
<223> n = A,T,C or G

```

```

<400> 423
gctcaaaaat ctttttactg atatggcatg gctacacaat cattgactat tagaggccag 60
aggagaatga ggcctggcct gggagccctg tgccctacta aagcncatta gattatccat 120
tcaactgacag aacaggtctt ttttgggtcc ttcttctcca ccacgatata cttgcagtcc 180
tccttcttga agattctttg gcagttgtct ttgtcataac ccacaggtgt anaaacaagg 240
gtgcaacatg aaatttctgt ttcgtagcaa gtgcatgtct cacagttgtc aagtctgccc 300

```

tccgagttta

310

<210> 424

<211> 370

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(370)

<223> n = A,T,C or G

<400> 424

```

gctcaaaaat ctttttactg ataggcatgg ctacacaatc attgactatt agaggccaga 60
ggagaatgag gcctggcctg ggagccctgt gcctactaga agcacattag attatccatt 120
cactgacaga acaggtcttt tttgggtcct tcttctccac cacgatatac ttgcagtcct 180
ccttcttgaa gattcttttg cagttgtctt tgtcataacc cacaggtgta gaaacatcct 240
ggttgaatct cctggaactc cctcattagg tatgaaatag catgatgcat tgcataaagt 300
cacgaagggtg gcaaagatca caacgctgcc cagganaaca ttcattgtga taagcaggac 360
tccgtcgacg                                     370

```

<210> 425

<211> 216

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(216)

<223> n = A,T,C or G

<400> 425

```

aattgctatn ntttattttg ccactcaaaa taattaccaa aaaaaaaaaa tnttaaatga 60
taacaacnca acatcaaggn aaananaaca ggaatggntg actntgcataaatnggccga 120
anattatcca ttatnttaag ggttgacttc aggntacagc acacagacaa acatgcccag 180
gaggntntca ggaccgctcg atgtnttntg aggagg                                     216

```

<210> 426

<211> 596

<212> DNA

<213> Homo sapiens

<400> 426

```

cttccagtga ggataaccct gttgccccgg gccgaggttc tccattaggc tctgattgat 60
tggcagtcag tgatggaagg gtgttctgat cattccgact gcccgaaggg tcgctggcca 120
gctctctgtt ttgctgagtt ggtagtagga cctaatttgt taattaagag tagatggtga 180
gctgtccttg tatttttgatt aacctaattg ccttcccagc acgactcgga ttcagctgga 240
gacatcacgg caactttttaa tgaatgatt tgaagggcca ttaagaggca cttcccgtaa 300
ttaggcagtt catctgcact gataacttct tggcagctga gctggtcgga gctgtggccc 360
aaacgcacac ttggcttttg gttttgagat acaactctta atcttttagt catgcttgag 420
ggtggatggc cttttcagct ttaacccaat ttgcaactgc ttggaagtgt agccaggaga 480
atacactcat atactcgtgg gcttagaggc cacagcagat gtcattggtc tactgcctga 540
gtcccgtcgg tcccattcca ggaccttcca tcggcgagta cctggggagcc cgtgct 596

```



```
<220>
<221> misc_feature
<222> (1)...(107)
<223> n = A,T,C or G
```

```
<210> 428
<211> 38
<212> DNA
<213> Homo sapiens
```

<400> 428
gaacttccna anaangactt tattcactat ttacatt 38

<400>	429						
ctttgctgga	cggaataaaa	gtggacgcaa	gcatgacctc	ctgatgaggg	cgctgcattt	60	
attgaagagc	ggctgcagcc	ctgcggttca	gattaaaatc	cgagaattgt	atagacgccg	120	
atatccacga	actcttgaag	gactttctga	tttatccaca	atcaaatcat	cggttttcag	180	
tttggatggt	ggctcatcac	ctgtagaacc	tgacttggcc	gtggctggaa	tccactcggt	240	
gccttccact	tcagttacac	ctcactcacc	atcctctcct	gttggttctg	tgtgtgttca	300	
agatactaag	cccacatttg	agatgcagca	gccatctccc	ccaattcctc	ctgtccatcc	360	
tgatgtgcag	ttaaaaaatc	tgccctttta	tgatgtcctt	gatgtttctca	tcaagcccac	420	
gagtttagtt	caaagcagta	ttcagcgatt	tcaagagaag	ttttttattt	ttgctttgac	480	
acctcaacaa	gttagagaga	tatgcatatc	cagggatttt	ttgccagggtg	gtaggagaga	540	
ttat						544	

```
<220>
<221> misc_feature
<222> (1)...(507)
<223> n = A,T,C or G
```


<220>
 <221> misc_feature
 <222> (1)...(281)
 <223> n = A,T,C or G

<400> 433
 ttcaactagc anagaanact gcttcagggn gtgtaaaatg aaaggcttcc acgcagttat 60
 ctgattaaag aacactaaga gagggacaag gctagaagcc gcaggatgtc tacactatag 120
 caggcnctat ttgggttggc tggaggagct gtggaaaaca tggagagatt ggcgctggag 180
 atcgccgtgg ctattcctcn ttgntattac accagnagg ntctctgtnt gccactggt 240
 tnnaaaaccg ntatacaata atgatagaat aggacacaca t 281

<210> 434
 <211> 484
 <212> DNA
 <213> Homo sapiens

<400> 434
 ttttaaaata agcatttagt gctcagtcct tactgagtac tctttctctc cctcctctg 60
 aatttaattc tttcaacttg caatttgcaa ggattacaca tttcactgtg atgtatattg 120
 tgttgcaaaa aaaaaaaagt gtctttgttt aaaattactt ggtttgtgaa tccatcttgc 180
 tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa acatctgaag 240
 agctagtcta tcagcatctg acaggtgaat tggatgggtc tcagaaccat ttcaccaga 300
 cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca taacaaaccc 360
 tgctccaatc tgtcacataa aagtctgtga cttgaagttt agtcagcacc cccaccaaac 420
 tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataaag taccatgtc 480
 tttta 484

<210> 435
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 435
 gcgcgctca gagcaggtca ctttctgcct tccacgtcct ccttcaagga agcccatgt 60
 gggtagcttt caatatcgca ggttcttact cctctgcctc tataagctca aaccaccaa 120
 cgatcgggca agtaaacccc ctccctcgcc gacttcggaa ctggcgagag ttcagcgag 180
 atgggcctgt ggggaggggg caagatagat gagggggagc ggcaggtgtc ggggtgaccc 240
 cttggagaga ggaaaaaggc cacaagaggg gctgccaccg ccactaacgg agatggccct 300
 ggtagagacc tttgggggtc tggaacctct ggactcccca tgccttaact cccacactct 360
 gctatcagaa acttaaactt gaggattttc tctgtttttc actcgcaata aattcagagc 420
 aaac 424

<210> 436
 <211> 667
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(667)
 <223> n = A,T,C or G

<400> 436

```

accttgggaa nactctcaca atataaaggg tegttagactt tactccaaat tccaaaaagg 60
tcctggccat gtaatcctga aagttttccc aaggtagcta taaaatcctt ataagggtgc 120
agcctcttct ggaattcctc tgatttcaaa gtctcactct caagttcttg aaaacgaggg 180
cagttcctga aaggcaggta tagcaactga tcttcagaaa gaggaactgt gtgcaccggg 240
atgggctgcc agagtaggat aggattccag atgctgacac cttctggggg aaacagggct 300
gccaggtttg tcatagcact catcaaagtc cggtcacagt ctgtgcttcg aatataaacc 360
tgttcatggt tataggactc attcaagaat tttctatata tctttcttat atactctcca 420
agttcataat gctgctccat gcccagctgg gtgagttggc caaatccttg tggccatgag 480
gattccttta tggggtcagt gggaaagggt tcaatgggac ttcggtctcc atgccgaaac 540
accaaagtca caaacttcaa ctcttggtgt agtacacttc ggtctagcca gaaaaaaagc 600
agaaacaaga agccaaggct aaggcttgct gccctgccag gaggaggggt gcagctctca 660
tgttgag                                     667

```

<210> 437

<211> 693

<212> DNA

<213> Homo sapiens

<400> 437

```

ctacgtetca accctcatth ttaggtaagg aatcttaagt ccaaagatat taagtgactc 60
acacagccag gtaaggaaag ctggattggc acactaggac tctaccatac cgggttttgt 120
taaagctcag gttaggaggc tgataagctt ggaagggaact tcagacagct ttttcagatc 180
ataaaagata attcttagcc catgtttctt tccagagcag acctgaaatg acagcacagc 240
aggtactcct ctatthttcac cctcttggt tctactctct ggcagtcaga cctgtggggag 300
gccatgggag aaagcagctc tctggatggt tgtacagatc atggactatt ctctgtggac 360
catttctcca ggttacccta ggtgtcacta ttggggggac agccagcatc tttagctthc 420
atthgagtht ctgtctgtct tcagtagagg aaactthtgc tcttcacact tcacatctga 480
acacctaact gctgthtctc ctgaggtggt gaaagacaga tatagagctt acagtattht 540
tcctatthct aggcactgag ggctgtgggg tacctgtggt tgccaaaaca gatcctgtht 600
taaggacatg ttgcttcaga gatgtctgta actatctggg ggctctgtht gctctthtacc 660
ctgcatcatg tgctctcttg gctgaaaatg acc                                     693

```

<210> 438

<211> 360

<212> DNA

<213> Homo sapiens

<400> 438

```

ctgcttatca caatgaatgt tctcctgggc agcgttggtga tctttgccac cttcgtgact 60
ttatgcaatg catcatgcta tttcatacct aatgaggagg ttccaggaga ttcaaccagg 120
atgtttctac acctgtgggt tatgacaaaag acaactgcc aagaatcttc aagaaggagg 180
actgcaagta tatctggtgg agaagaagga cccaaaaaag acctgttctg tcagtgaatg 240
gataatctaa tgtgcttcta gtaggcacag ggctcccagg ccaggcctca ttctcctctg 300
gcctctaata gtcaataatt gtgtagccat gcctatcagt aaaaagatth ttgagcaaac 360

```

<210> 439

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(431)

<223> n = A,T,C or G

<400> 439
gttcctnnta actcctgcc gaaacagctc tcctcaacat gagagctgca cccctcctcc 60
tgccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgactttggg gtttcggcat ggagaccgaa 180
gtcccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcctgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420
aatttagtag t 431

<210> 440
<211> 523
<212> DNA
<213> Homo sapiens

<400> 440
agagataaag cttaggtcaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaagtgc tgaaatggaa cagatttcaa aaaaaaacc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
cttctctcaa ggagaggcaa agaaaggaga tacagtggag acatctggaa agttttctcc 300
actggaaaac tgctactatc tgtttttata tttctgttaa aatatatgag gctacagaac 360
taaaaattaa aacctctttg tgtcccttgg tcttggaaca tttatgttcc ttttaaagaa 420
acaaaaatca aactttacag aaagatttga tgtatgtaat acatatagca gctcttgaag 480
tatatatatc atagcaaata agtcatctga tgagaacaag cta 523

<210> 441
<211> 430
<212> DNA
<213> Homo sapiens

<400> 441
gttcctccta actcctgcc gaaacagctc tcctcaacat gagagctgca cccctcctcc 60
tgccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgactttggg gtttcggcat ggagaccgaa 180
gtcccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcctgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420
aatttagtag 430

<210> 442
<211> 362
<212> DNA
<213> Homo sapiens

<400> 442
ctaaggaatt agtagtggtc ccatcacttg tttggagtgt gctatttctaa aagattttga 60
tttcttgga tgacaattat attttaactt tgggtgggga aagagttata ggaccacagt 120
cttcacttct gatacttgta aattaatctt ttattgcact tgttttgacc attaagctat 180
atgtttagaa atggtcattt tacggaaaaa ttagaaaaat tctgataata gtgcagaata 240
aatgaattaa tgttttactt aatttatatt gaactgtcaa tgacaaataa aaattctttt 300
tgattatatt ttgttttcat ttaccagaat aaaaactaag aattaaaagt ttgattacag 360

tc

362

```

<210> 443
<211> 624
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(624)
<223> n = A,T,C or G

```

```

<400> 443
ttttttttttt gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag 60
ttgaaagaat taaattcaga ggaggggaga gaaagagtac tcagtaggga ctgagcacta 120
aatgcttatt ttaaaagaaa tgtaaagagc agaaagcaat tcaggctacc ctgccttttg 180
tgctggctag tactccggtc ggtgtcagca gcacgtggca ttgaacattg caatgtggag 240
cccaaaccac agaaaatggg gtgaaattgg ccaactttct attaacttgg cttcctgttt 300
tataaaatat tgtgaataat atcacctact tcaaagggca gttatgaggc ttaaatgaac 360
taacgcctac aaaacactta aacatagata acataggtgc aagtactatg tatctggtac 420
atggtaaaca tccttattat taaagtcaac gctaaaatga atgtgtgtgc atatgcta 480
agtacagaga gagggcactt aaaccaacta agggcctgga ggggaaggttt cctggaaaga 540
ngatgcttgt gctgggtcca aatcttggtc tactatgacc ttggccaaat tattttaaact 600
ttgtccctat ctgctaaaca gatc 624

```

```

<210> 444
<211> 425
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(425)
<223> n = A,T,C or G

```

```

<400> 444
gcacatcatt nntcttgcatt tctttgagaa taagaagatc agtaaatagt tcagaagtgg 60
gaagctttgt ccaggcctgt gtgtgaaccc aatgttttgc ttagaaatag aacaagtaag 120
ttcattgcta tagcataaca caaaatttgc ataagtgggtg gtcagcaaatt ccttgaatgc 180
tgcttaaatgt gagagggttg taaaatcctt tgtgcaaacac tctaactccc tgaatgtttt 240
gctgtgctgg gacctgtgca tgccagacaa ggccaagctg gctgaaagag caaccagcca 300
cctctgcaat ctgccacctc ctgctggcag gatttgtttt tgcatacctgt gaagagccaa 360
ggaggcacca gggcataagt gagtagactt atgggtcgacg cggccgcgaa tttagtagta 420
gtaga 425

```

```

<210> 445
<211> 414
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(414)
<223> n = A,T,C or G

```

```

<400> 445
catgtttatg nttttggatt actttgggca cctagtgttt ctaaactcgtc tatcattctt 60
ttctgttttt caaaagcaga gatggccaga gtctcaacaa actgtatctt caagtctttg 120
tgaaattctt tgcattgtggc agattattgg atgtagtctt ctttaactag catataaatc 180
tgggtgtgtt cagataaatg aacagcaaaa tgtggtggaa ttaccatttg gaacattgtg 240
aatgaaaaat tgtgtctcta gattatgtaa caaataacta tttcctaacc attgatcttt 300
ggatttttat aatcctactc acaaatgact aggccttctc tcttgtattt tgaagcagtg 360
tgggtgctgg attgataaaa aaaaaaaaaa tgcagcggc cgcaattta gtag 414

```

<210> 446

<211> 631

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(631)

<223> n = A,T,C or G

```

<400> 446
acaaattaga anaaagtgcc agagaacacc acataccttg tccggaacat tacaatggct 60
tctgcatgca tgggaagtgt gagcattcta tcaatatgca ggagccatct tgcagggtgtg 120
atgctgggta tactggacaa cactgtgaaa aaaaggacta cagtgttcta tacgttggtc 180
ccggtcctgt acgatttcag tatgtcttaa tgcagctgt gattggaaca attcagattg 240
ctgtcatctg tgtggtggtc ctctgcatca caagggccaa actttaggta atagcattgg 300
actgagattt gtaaaacttt caaccttcca ggaaatgccc cagaagcaac agaattcaca 360
gacagaagca aaatacaggg cactacagtt cagacaatac aacaagagcg tccacgaggt 420
taatctaaag ggagcatgtt tcacagtggc tggactaccg agagcttgga ctacacaata 480
cagtattata gacaaaagaa taagacaaga gatctacaca tgttgccttg catttggtgt 540
aatctacacc aatgaaaaca tgtactacag ctatatgtga ttatgtatgg atatatttga 600
aatagtatac attgtcttga tgtttttct g 631

```

<210> 447

<211> 585

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(585)

<223> n = A,T,C or G

```

<400> 447
ccttgggaaa antntcacia tataaagggt cgtagacttt actccaaatt ccaaaaagggt 60
cctggccatg taatcctgaa agttttccca aggtagctat aaaatcctta taagggtgca 120
gcctcttctg gaattcctct gatttcaaag tctcactctc aagttcttga aaacgagggc 180
agttcctgaa aggcaggtat agcaactgat ctccagaaaag aggaactgtg tgcaccggga 240
tgggctgccg gagtaggata ggattccaga tgetgacacc ttctggggga aacagggtctg 300
ccaggtttgt catagcactc atcaaagtcc ggtcaacgtc tgtgcttcga atataaacct 360
gttcatgttt ataggactca ttcaagaatt ttctatatct ctttcttata tactctccaa 420
gttcataatg ctgctccatg cccagctggg tgagttggcc aaatccttgt ggccatgagg 480
attcctttat ggggtcagtg ggaaagggtg caatgggact tccgtctcca tgccgaaaca 540
ccaaagtcac aaacttcaac tccttggtca gtacacttcg gtcta 585

```

<210> 448
 <211> 93
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(93)
 <223> n = A,T,C or G

<400> 448
 tgctcgtggg tcattctgan nnccgaactg accntgccag ccctgccgan gggccnccat 60
 ggctccctag tgccctggag agganggggc tag 93

<210> 449
 <211> 706
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(706)
 <223> n = A,T,C or G

<400> 449
 ocaagttcat gctntgtgct ggacgctgga cagggggcaa aagcnnttgc tcgtgggtca 60
 ttctgancac cgaactgacc atgccagccc tgccgatggt cctccatggc tccctagtgc 120
 cctggagagg aggtgtctag tcagagagta gtcctggaag gtggcctctg ngaggagcca 180
 cggggacagc atcctgcaga tggtcgggag cgtcccatc gccattcagg ctgcgcaact 240
 gttgggaagg gcgatcggtg cgggcctctt cgctattacg ccagctggcg aaagggggat 300
 gtgctgcaag gcgattaagt tgggtaacgc caggggttttc ccagtcncga cgttgtaaaa 360
 cgacggccag tgaattgaat ttaggtgacn ctatagaaga gctatgacgt cgcatgcacg 420
 cgtacgtaag cttggatcct ctagagcggc cgcctactac tactaaattc gcggccgcgt 480
 cgacgtggga tccnactga gagagtggag agtgacatgt gctggacnct gtccatgaag 540
 cactgagcag aagctggagg cacaacgcnc cagacactca cagctactca ggaggctgag 600
 aacaggttga acctgggagg tggaggttgc aatgagctga gatcaggccn ctgcncacca 660
 gcatggatga cagagtgaat ctccatctta aaaaaaaaaa aaaaaa 706

<210> 450
 <211> 493
 <212> DNA
 <213> Homo sapiens

<400> 450
 gagacggagt gtcactctgt tgcccaggct ggagtgcagc aagacactgt ctaagaaaaa 60
 acagttttta aaggtaaaaa aacataaaaa gaaatatcct atagtggaaa taagagagtc 120
 aaatgaggct gagaacttta caaagggatc ttacagacat gtcgccaaata tcaactgcatg 180
 agcctaagta taagaacaac ctttggggag aaaccatcat ttgacagtga ggtacaattc 240
 caagtcagggt agtgaaatgg gtggaattaa actcaaatta atcctgccag ctgaaacgca 300
 agagacactg tcagagagtt aaaaagttag ttctatccat gaggtgattc cacagtcttc 360
 tcaagtcaac acatctgtga actcacagac caagttctta aaccactgtt caaactctgc 420
 tacacatcag aatcacctgg agagctttac aaactcccat tgccgagggt cgacgcggcc 480
 gcgaatttag tag 493

<210> 451
 <211> 501
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 451
 gggcgcgctcc cattcgccat tcaggctgcg caactgttgg gaagggcgat cgggtgcgggc 60
 ctcttcgcta ttacgccagc tggcgaaagg gggatgtgct gcaaggcgat taagttgggt 120
 aacgccaggg ttttcccagt cncgacgttg taaaacgacg gccagtgaat tgaatttagg 180
 tgacnctata gaagagctat gacgtcgcat gcacgcgtac gtaagcttgg atcctctaga 240
 gcggccgcct actactacta aattcgcggc cgcgtcgacg tgggatccnc actgagagag 300
 tggagagtga catgtgctgg acnctgtcca tgaagcactg agcagaagct ggaggcacia 360
 cgcncagac actcacagct actcaggagg ctgagaacag gttgaacctg ggaggtggag 420
 gttgcaatga gctgagatca ggccnctgcn ccccgacatg gatgacagag tgaaactcca 480
 tcttaaaaaa aaaaaaaaaa a 501

<210> 452
 <211> 51
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(51)
 <223> n = A,T,C or G

<400> 452
 agacgggttc accnttacaa cnccttttag gatgggnntt ggggagcaag c 51

<210> 453
 <211> 317
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(317)
 <223> n = A,T,C or G

<400> 453
 tacatcttgc tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa 60
 acatctgaag agctagtcta tcagcatctg gcaagtgaat tggatgggtc tcagaacat 120
 ttacccana cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca 180
 taacaaaacc tgctccaatc tgtcacataa aagtctgtga cttgaagttt antcagcacc 240
 cccaccaaac tttatTTTTT tatgtgtttt ttgcaacata tgagtgtttt gaaaataagg 300
 taccatgtc tttatta 317

<210> 454

<211> 231
 <212> DNA
 <213> Homo sapiens

<400> 454
 ttcgaggtac aatcaactct cagagtgtag tttccttcta tagatgagtc agcattaata 60
 taagccacgc cacgctcttg aaggagtctt gaattctcct ctgctcactc agtagaacca 120
 agaagaccaa attcttctgc atcccagctt gcaaacaaaa ttgttcttct aggtctccac 180
 ccttcctttt tcagtgttcc aaagctcttc acaatttcat gaacaacagc t 231

<210> 455
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 455
 taccaaagag ggcataataa tcagtctcac agtagggttc accatcctcc aagtgaaaaa 60
 cattgttccg aatgggcttt ccacaggcta cacacacaaa acaggaaaca tgccaagttt 120
 gtttcaacgc attgatgact tctccaagga tcttcctttg gcacgcacca cattcagggg 180
 caaagaattt ctcatagcac agctcacaat acagggtctc tttctcctct a 231

<210> 456
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 456
 ttggcaggta cccttacaaa gaagacacca taccttatgc gttattaggt ggaataatca 60
 ttccattcag tattatcggt attattcttg gagaaaccct gtctgtttac tgtaaccttt 120
 tgactcaaa ttcctttatc aggaataact acatagccac tatttacaaa gccattggaa 180
 cttttttatt tgggtgcagct gctagtcagt ccctgactga cattgccaag t 231

<210> 457
 <211> 231
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(231)
 <223> n = A,T,C or G

<400> 457
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 tatttgattt tattagcaat ctctttcaga agacccttga gatcattaag ctttgtatcc 180
 agttgtctaa atcgaatgct catttctctc gaggtgtcgc tggcttttgt g 231

<210> 458
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 458

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acaccctaac cttgggtaac agcatttgga attatcattt gggatgagta gaatttcaa 180
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<210> 459

<211> 231

<212> DNA

<213> Homo sapiens

<400> 459

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gccctgcaact gttttccctc caccacagcc atcctgtccc tcattggctc tgtgctttcc 180
actatacaca gtcaccgtcc caatgagaaa caagaaggag caccctccac a 231

```

<210> 460

<211> 231

<212> DNA

<213> Homo sapiens

<400> 460

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gcaggtataa catgctgcaa caacagatgt gactaggaac ggccggtgac atggggaggg 60
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cccacctccc cacacgcaca cggccagcct ggagcccaca gaagggtcct cctgcagcca 180
gtggagcttg gtccagcctc cagtccacc ctaccaggct taaggataga a 231

```

<210> 461

<211> 231

<212> DNA

<213> Homo sapiens

<400> 461

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cgagggttga gaagctctaa tgtgcagggg agccgagaag caggcggcct agggagggtc 60
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gtggggttca gtgaggagtg ggaaattggt tcagcagAAC caagccgttg ggtgaataag 180
agggggattc catggcactg atagagccct atagtctcag agctgggaat t 231

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<210> 462

<211> 231

<212> DNA

<213> Homo sapiens

<400> 462

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aggtaccctc attgtagcca tgggaaaatt gatgttcagt ggggatcagt gaattaaatg 60
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gaagaactgt tagagagacc aacagggtag tgggttagag atttccagag tcttacattt 180
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<210> 463

<211> 231

<212> DNA

<213> Homo sapiens

<400> 463
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 catttgacag gtgtcttttc ctctggacct cgggtgtcccc atctgagtga gaaaaggcag 180
 tggggaggtg gatcttccag tcgaagcggg atagaagccc gtgtgaaaag c 231

<210> 464
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 464
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 aaggacatca catatgaaga atgtttaagt tggaggtggc aacgtgaatt gcaaacaggg 120
 cctgtctcag tgactgtgtg cctgtagtcc cagctactcg ggagtctgtg tgaggccagg 180
 ggtgccagcg caccagctag atgctctgta acttctaggg cccattttcc c 231

<210> 465
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 465
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 aggatggcac aatttttgct tgtgttcata atatactcag attagttcag ctccatcaga 180
 taaactggag acatgcagga cattagggta gtgttgtagc tctggtaatg a 231

<210> 466
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 466
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 <211> 311
 <212> DNA
 <213> Homo sapiens

<400> 467
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 gcatgggtct ctgcccagc tcgtaatgag actatagcaa ggcggctgtg ggacgtcagt 240
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 ctgcagcaga c 311

<210> 468
 <211> 3112

<212> DNA

<213> Homo sapiens

<400> 468

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aaatgggata cacagtatga tctataaagt gggatatagt atgatctact tcaactgggtt 420
atlttgaagga tgaattgaga taatttatct cagggtgccta gaacaatgcc cagattagta 480
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tttccattcc agttggcttc ttgggtttgc tagctgcctc actagtcctc ttaaataaat 720
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tttgtccttg tagttaattg aaagaaatag ggcactcttg tgagccactt tagggttcac 3060
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<210> 469

<211> 2229

<212> DNA

<213> Homo sapiens

<400> 469

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tgatttgcca aaattctaaa gcgcactcac catgaaatgg ataaagggtta cctttgggga 180
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aatggaatt 2229

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<210> 470

<211> 2426

<212> DNA

<213> Homo sapiens

<400> 470

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```

<210> 471

<211> 812

<212> DNA

<213> Homo sapiens

<400> 471

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<210> 472

<211> 515

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<223> n = A,T,C or G

<400> 472

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<210> 473

<211> 5829

<212> DNA

<213> Homo sapiens

<400> 473

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tgcaacagcc tgagtggctg ccacctgata gctgatggag cagaggcctg aggaaaatca 180
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<210> 474

<211> 1594

<212> DNA

<213> Homo sapiens

<400> 474

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<210> 475
<211> 2414
<212> DNA
<213> Homo sapiens

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<210> 476

<211> 3434

<212> DNA

<213> Homo sapiens

<400> 476

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<210> 477

<211> 140

<212> PRT

<213> Homo sapiens

<400> 477

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Leu Ser His Tyr His Arg Asp Thr Arg His His Thr Val Thr Trp Thr
      35                      40                      45

His His His Thr His Glu His Thr Asp Thr Leu Pro Tyr Gly His Trp
      50                      55                      60

His Thr His Cys His Thr Val Thr Trp Thr His Leu His Thr Ile Thr
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Pro Pro His Thr Leu Pro Val Asp Thr Arg Thr His Arg His Cys His
      85                      90                      95

Thr Asp Thr Gln Asn Thr Val Thr Arg Arg His His His Ala Asp Thr
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Pro Pro Leu Trp Cys Arg Leu Asn Tyr Pro Ala Gly Gly Thr Ala Val
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<210> 478

<211> 143

<212> PRT

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130 135 140

Arg His Ser Ala Thr Gln Ile His His His Thr Glu Met Arg Thr His
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Cys His Thr Asp Thr Thr Thr Ser Leu Pro His Phe His Val Ser Ala
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<210> 480

<211> 144

<212> PRT

<213> Homo sapiens

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Cys Cys Leu Trp Gly Leu Gln Ser Leu Pro Gln Gly Ser Tyr Val Thr
20 25 30

Val Gly Phe Leu Val Val Lys Arg Gln Thr Ile Gly Arg Leu Glu Arg
35 40 45

Asp Phe Met Phe Lys Cys Arg Lys Gln Pro Gly Leu Pro Pro Ser Gly
50 55 60

Leu Cys Leu Leu Trp Pro Trp Pro Asn Leu Glu Phe Gly Arg Arg Gln
65 70 75 80

Asp Arg Leu Thr Trp Ser Ser Val Ser Val Ala Gly Val Cys Ala Cys
85 90 95

Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly
100 105 110

Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu

100 110 120 130 140 150 160 170 180 190 200 210 220

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<210> 481
<211> 167
<212> PRT
<213> Homo sapiens
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Ala Leu Ala Ala Thr Ser Ala Gly Val Arg Leu Glu Gly Val Asp Arg
20 25 30

Leu Ser Gly Cys His Leu Met Ala Asp Gly Ala Lys Ala Leu Gly Lys
50 55 60

Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser Ser Trp Arg
85 90 95

Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys Trp Ser His
115 120 125

Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu Trp Ala Ser
145 150 155 160

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<210> 482
<211> 143
<212> PRT
<213> Homo sapiens
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<400> 482

Met Glu Pro Tyr Arg Gly Asn Lys Lys Gln Val Gln Glu Lys Gly Val
 5 10 15

Pro Cys Leu Trp Gly Ser Ser Pro Cys Leu Arg Cys His Met Ala Leu
 20 25 30

Arg Ala Ser Trp Leu Pro Gly Gly Gly Pro Gln Ala Ile Leu Gly Arg
 35 40 45

Thr Leu Cys Ser Ser Ala Glu Ser Ser Gln Asp Cys His Pro Gly Gly
 50 55 60

Pro Ser Ile Ala Leu Ala Lys Pro Cys Arg Gly Val Trp Leu Leu Phe
 65 70 75 80

Glu Pro Ala Trp Pro Pro Trp His Ala Arg Ala Pro Gly Ala Gly Thr
 85 90 95

Leu Leu Arg Val Cys Leu Ser Cys Leu Gly Cys His Leu Cys Gly Gly
 100 105 110

Ala Ser Gly Gly Gly Gly Pro Ala Thr Asn Leu Thr Gln Ser Arg Lys
 115 120 125

Trp Met Ala Met Phe Pro Gln Pro Glu Trp Leu Pro Pro Asp Gly
 130 135 140

<210> 483

<211> 143

<212> PRT

<213> Homo sapiens

<400> 483

Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val
 5 10 15

Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala
 20 25 30

Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp
 35 40 45

Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu
 50 55 60

Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp
 65 70 75 80

Lys Leu Thr Arg Ser Ser Val Ser Val Ala Gly Ala Tyr Ala Cys Arg
 85 90 95

Ala Gly Pro Gly Trp Leu Lys Glu Gln Pro Ala Thr Ser Ala Arg Val

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100 105 110
 Arg Leu Val Gln Ala Glu His Pro Pro Pro His Pro Leu Glu Glu Val
 115 120 125
 Gly Met Ala Arg Phe Pro Gln Pro Glu Cys Leu Pro Pro Tyr Cys
 130 135 140

<210> 484
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 <213> Homo Sapien

<400> 484
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
 1 5 10 15
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile
 20 25 30

<210> 485
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 <212> DNA
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<220>
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<400> 485
 gggaagctta tcacctatgt gccgcctctg c

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<210> 486
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<400> 486
 gcgaattctc acgctgagta tttggcc

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<210> 487
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 <212> DNA
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<220>
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<400> 487
 cccgaattct tagctgccca tccgaacgcc ttcac

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<210> 488
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<212> DNA
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<220>
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<400> 488
 gggaagcttc ttccccggct gcaccagctg tgc

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<210> 489
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<220>
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<400> 489
 Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala
 1 5 10 15
 Ser Val Ala

<210> 490
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 490
 Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys
 1 5 10 15
 Leu Ser His Ser
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<210> 491
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 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 491
 Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Leu
 1 5 10 15
 Thr Gly Phe Thr
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<210> 492
 <211> 20
 <212> PRT

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<210> 500

<211> 20

<212> PRT

<213> Artificial Sequence

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<223> Made in a lab

<400> 500

Leu	Asp	Ser	Ala	Phe	Leu	Leu	Ser	Gln	Val	Ala	Pro	Ser	Leu	Phe	Met
1				5				10					15		
Gly	Ser	Ile	Val												
			20												

<210> 501

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 501

Phe	Met	Gly	Ser	Ile	Val	Gln	Leu	Ser	Gln	Ser	Val	Thr	Ala	Tyr	Met
1				5				10						15	
Val	Ser	Ala	Ala												
			20												

<210> 502

<211> 414

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(414)

<223> n=A,T,C or G

<400> 502

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tcagtcggtg	gaggagtcgc	ggggtcgct	ggtcacgcct	gggacacctt	tgacantcac	120
ctgtagagtt	tttggaaatg	acctcagtag	caatgcaatg	agctgggtcc	gccaggctcc	180
aggggaagggg	ctggaatgga	tcggagccat	tgataattgt	ccacantacg	cgacctgggc	240
gaaaggccga	ttnatnat	ccaaaacctn	gaccacggtg	gatttgaaaa	tgaccagtcc	300
gacaaccgag	gacacggcca	cctatttttg	tggcagaatg	aatactggta	atagtggttg	360
gaagaatatt	tggggccocag	gcaccctggt	caccgtntcc	tcagggcaac	ctaa	414

<210> 503

<211> 379

<212> DNA

<213> Homo Sapien


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ctgacaaccg aggacacggc cacctatttc tgtgccagaa atagtgattt tagtggtatg 360
ttgtggggcc caggcaccct ggtcaccgtc tcctcagggc aacctaa 407

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<210> 507
<211> 422
<212> DNA
<213> Homo Sapien

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<400> 507
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tcgggtggagg agtcgggggg tcgcctgggc acgcctggga caccctgac actcacctgt 120
acagtctctg gattctccct cagcaactac gacctgaact ggtccgccca ggctccaggg 180
aaggggctgg aatggatcgg gatcattaat tatgttggta ggacggacta cgcgaactgg 240
gcaaaaggcc ggttcaccat ctccaaaacc tcgaccaccg tggatctcaa gatcgccagt 300
ccgacaaccg aggacacggc cacctatttc tgtgccagag ggtggaagtg cgatgagtct 360
ggtcggtgct tgcgcactct gggccaggc accctgggtc ccgtctcctt agggcaacct 420
aa 422

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<210> 508
<211> 411
<212> DNA
<213> Homo Sapien

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<220>
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<222> (1)...(411)
<223> n=A,T,C or G

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<400> 508
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cggtggagga gtcggggggg cgcctgggtc cgccctggga acccctgaca ctcacctgca 120
cagtctctgg aatcgacctc agtagctact gcatgagctg ggtccgccag gctccaggga 180
aggggctgga atggatcgga atcattggta ctccctgggtg cacatactac gcgaggtggg 240
cgaaaggccg attcaccatc tccaaaacct cgaccacggg gcatntgaaa atcnccagtc 300
cgacaaccga ggacacggcc acctatttct gtgccagaga tcttcgggat ggtagtagta 360
ctggttatta taaaatctgg ggcccaggca ccctgggtcac cgtctccttg g 411

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<210> 509
<211> 15
<212> PRT
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<220>
<223> Made in a lab

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<400> 509
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
1           5           10           15

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<210> 510
<211> 15
<212> PRT
<213> Artificial Sequence

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<220>

<223> Made in a lab

<400> 510

Pro	Glu	Tyr	Asn	Arg	Pro	Leu	Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile
1				5					10					15

<210> 511

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Made in a lab

<400> 511

Tyr	His	Pro	Ser	Met	Phe	Cys	Ala	Gly	Gly	Gly	Gln	Asp	Gln	Lys
1				5					10					15

<210> 512

<211> 15

<212> PRT

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<220>

<223> Made in a lab

<400> 512

Asp	Ser	Gly	Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu
1				5					10					15

<210> 513

<211> 15

<212> PRT

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<223> Made in a lab

<400> 513

Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Asx	Val	Tyr	Thr	Asn	Leu
1				5					10					15

<210> 514

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 514

Leu	Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser
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<210> 515														
<211> 15														
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<213> Artificial Sequence														
<220>														
<223> Made in a lab														
<400> 515														
Met	Val	Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg
1				5					10					15
<210> 516														
<211> 15														
<212> PRT														
<213> Artificial Sequence														
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<223> Made in a lab														
<400> 516														
Val	Ser	Glu	Ser	Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln
1				5					10					15
<210> 517														
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<212> PRT														
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<220>														
<223> Made in a lab														
<400> 517														
Glu	Val	Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met
1				5					10					15
<210> 518														
<211> 15														
<212> PRT														
<213> Artificial Sequence														
<220>														
<223> Made in a lab														
<400> 518														
Arg	Ala	Glu	Pro	Gly	Thr	Glu	Ala	Arg	Arg	His	Tyr	Asp	Glu	Gly
1				5					10					15
<210> 519														
<211> 17														
<212> PRT														
<213> Artificial Sequence														

<220>

<223> Made in a lab

<400> 519

Arg	Ala	Glu	Pro	Gly	Thr	Glu	Ala	Arg	Arg	Asn	Tyr	Asp	Glu	Gly	Cys
1				5				10						15	
Gly															

<210> 520

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 520

Val	Gly	Glu	Gly	Leu	Tyr	Gln	Gly	Val	Pro	Arg	Ala	Glu	Pro	Gly	Thr
1				5					10					15	
Glu	Ala	Arg	Arg	His	Tyr	Asp	Glu	Gly							
			20					25							

<210> 521

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 521

Ala	Pro	Phe	Pro	Asn	Gly	His	Val	Gly	Ala	Gly	Gly	Ser	Gly	Leu	Leu
1				5				10						15	
Pro	Pro	Pro	Pro	Ala											
				20											

<210> 522

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 522

Leu	Leu	Val	Val	Pro	Ala	Ile	Lys	Lys	Asp	Tyr	Gly	Ser	Gln	Glu	Asp
1				5					10					15	
Phe	Thr	Gln	Val												
			20												

<210> 523

<211> 254

<212> PRT
 <213> Artificial Sequence
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 <223> Made in a lab
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 <221> VARIANT
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 <223> Xaa = any amino acid

<400> 523

Met	Ala	Thr	Ala	Gly	Asn	Pro	Trp	Gly	Trp	Phe	Leu	Gly	Tyr	Leu	Ile
1				5				10					15		
Leu	Gly	Val	Ala	Gly	Ser	Leu	Val	Ser	Gly	Ser	Cys	Ser	Gln	Ile	Ile
			20					25					30		
Asn	Gly	Glu	Asp	Cys	Ser	Pro	His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu
			35				40					45			
Val	Met	Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln
	50					55					60				
Trp	Val	Leu	Ser	Ala	Thr	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly
65					70				75					80	
Leu	Gly	Leu	His	Ser	Leu	Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met
			85					90					95		
Val	Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu
			100					105				110			
Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu
		115				120						125			
Ser	Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala
	130				135						140				
Gly	Asn	Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly	Arg
145				150						155				160	
Met	Pro	Thr	Val	Leu	Gln	Cys	Val	Asn	Val	Ser	Val	Val	Ser	Glu	Glu
			165					170						175	
Val	Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys
			180					185				190			
Ala	Gly	Gly	Gly	Gln	Xaa	Gln	Xaa	Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly
		195				200					205				
Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly
	210				215						220				
Lys	Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu
225				230				235						240	
Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser		
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<210> 524
 <211> 765
 <212> DNA
 <213> Homo sapien

<400> 524

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<210> 525

<211> 254

<212> PRT

<213> Homo sapien

<400> 525

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          20          25          30
Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu
          35          40          45
Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
          50          55          60
Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
 65          70          75          80
Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
          85          90          95
Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
          100          105          110
Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
          115          120          125
Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
          130          135          140
Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg
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Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
          165          170          175
Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
          180          185          190
Ala Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly
          195          200          205
Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
          210          215          220
Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
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<212> DNA

<213> Homo sapiens

<400> 526

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<210> 527

<211> 320

<212> PRT

<213> Homo sapiens

<400> 527

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      20                      25                      30

Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val
      35                      40                      45

Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
      50                      55                      60

Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
      65                      70                      75                      80

Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
      85                      90                      95

Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
      100                     105                     110

Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
      115                     120                     125

Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
      130                     135                     140

Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu

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 Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val
 195 200 205
 Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val
 210 215 220
 Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys
 225 230 235 240
 Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly
 245 250 255
 Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg
 260 265 270
 Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro
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 <213> Homo Sapien

<400> 528
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20

<210> 529
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<400> 529
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<210> 530
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 <212> DNA
 <213> Homo sapiens

<400> 530

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<400> 532

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      20                      25                      30

Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe
      35                      40                      45

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
      50                      55                      60

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
      65                      70                      75                      80

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
      85                      90                      95

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
      100                     105                     110

Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
      115                     120                     125

Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu
      130                     135                     140

Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
      145                     150                     155                     160

Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile
      165                     170                     175

Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
      180                     185                     190

Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
      195                     200                     205

Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu
      210                     215                     220

Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu
      225                     230                     235                     240

Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys
      245                     250                     255

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Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp
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Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met Leu Phe Leu
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Val Ile Ile Met
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 <211> 801
 <212> DNA
 <213> Homo sapiens

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<210> 534
 <211> 266
 <212> PRT
 <213> Homo sapiens

<400> 534
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Arg Lys Gln Ala Ala Gly Ser Gly Ala Gly Tyr Ala Leu Pro Ser Ala
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Leu Gln Ser Met Pro Gln Gly Ser Tyr Ala Thr Ala Arg Phe Leu Val
 35 40 45

Ala Lys Arg Pro Thr Thr Gly His Leu Glu Lys Glu Phe Met Phe His
 50 55 60

Cys Arg Lys Gln Pro Gly Ser Pro Ser Arg Gly Leu Gly Leu Leu Trp
 65 70 75 80

Pro Trp Pro Asp Ile Glu Phe Val Pro Arg Gln Asp Lys Leu Thr Gln
 85 90 95

Ser Ser Val Leu Val Pro Gln Ile Cys Ala Cys Gln Thr Arg Pro Asn
100 105 110

Trp Leu Asn Glu Gln Pro Ala Thr Ser Ala Gly Val Arg Leu Glu Glu
115 120 125

Val Asp Gln Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys
130 135 140

Ser His Ser Leu Ser Gly Cys His Leu Met Ala Asp Ile Ala Lys Ala
145 150 155 160

Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr
165 170 175

Asp Val Pro Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser
180 185 190

Ser Trp His Thr Leu Ala Glu Val Thr Gly Cys Ser Leu Ser Pro Leu
195 200 205

Ser Leu Ala Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys
210 215 220

Trp Ser His Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr
225 230 235 240

Ala Ala Phe Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu
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Trp Ala Ser Trp Leu Pro Arg Gly Arg Pro
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<210> 535

<211> 6082

<212> DNA

<213> Homo sapiens

<400> 535

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 355 360 365
 Phe Pro Ser Ala Ile Glu Arg Val Ser Glu Ala Ile Val Ser Ile Arg
 370 375 380
 Arg Ile Gln Thr Phe Leu Leu Asp Glu Ile Ser Gln Arg Asn Arg
 385 390 395 400
 Gln Leu Pro Ser Asp Gly Lys Lys Met Val His Val Gln Asp Phe Thr
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60600-69999

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 Ser Gly Leu Thr Val Ala Thr Val Leu Phe Gly Ile Ala Arg Ser Leu
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 Leu Val Phe Tyr Val Leu Val Asn Ser Ser Gln Thr Leu His Asn Lys
 785 790 795 800
 Met Phe Glu Ser Ile Leu Lys Ala Pro Val Leu Phe Phe Asp Arg Asn
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 Pro Ile Gly Arg Ile Leu Asn Arg Phe Ser Lys Asp Ile Gly His Leu
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 850 855 860
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 Tyr Phe Leu Glu Thr Ser Arg Asp Val Lys Arg Leu Glu Ser Thr Thr
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 880-885
 890-895

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<213> Homo sapiens

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Tyr Leu Val Leu Gly Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val
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Asp Pro Met Asp Ser Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr
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Val Leu Thr Phe Cys Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr
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Phe Tyr His Val Gln Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys
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His Met Ile Tyr Arg Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly
130 135 140

Lys Thr Thr Thr Gly Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn
145 150 155 160

Lys Phe Asp Gln Val Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro
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Leu Gln Ala Ile Ala Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile
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Ser Cys Leu Ala Gly Met Ala Val Leu Ile Ile Leu Leu Pro Leu Gln
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Ser Cys Phe Gly Lys Leu Phe Ser Ser Leu Arg Ser Lys Thr Ala Thr
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 Arg Ile Ile Lys Met Tyr Ala Trp Glu Lys Ser Phe Ser Asn Leu Ile
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 Thr Asn Leu Arg Lys Lys Glu Ile Ser Lys Ile Leu Arg Ser Ser Cys
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 Ser Gln Arg Asn Arg Gln Leu Pro Ser Asp Gly Lys Lys Met Val His
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 Ala Tyr Val Ser Gln Gln Pro Trp Val Phe Ser Gly Thr Leu Arg Ser
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770 775 780

Asp Ile Gly His Leu Asp Asp Leu Leu Pro Leu Thr Phe Leu Asp Phe
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 Pro His Glu Gly Val Ile Ile Phe Asp Asn Val Asn Phe Met Tyr Ser
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Lys Met Ser Ile Ile Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met
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Arg Lys Asn Leu Asp Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp
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Met Thr

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Ser Val

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Ala Phe Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys
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Cys Arg Met Pro Arg Thr Leu Arg Arg Leu
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Glu Cys

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Gln Ala

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<210> 553

<211> 58

<212> PRT

<213> Homo sapiens

<400> 553

Ser Ile Cys Asn Met Thr Cys Ala Ser Val Phe Phe Cys Asp Gln Lys
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Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly
 20 25 30

Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr
 35 40 45

Glu Pro His His Thr Gly Gly Gly Glu His
 50 55

<210> 554

<211> 59

<212> PRT

<213> Homo sapiens

<400> 554

Leu Gln Lys Asn Lys Leu Arg Ala Ser Thr Asp Ser Thr Leu Trp Ile
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Cys Ala Ala Glu Ala Ser Thr Lys Pro Tyr Phe Tyr Thr Cys Leu Val
 20 25 30

Met Leu His Gly Gln Gly Leu Ala Leu Leu Ser Pro Thr Asn Leu Pro
 35 40 45

Glu Ile Leu Arg Phe Leu Phe Asn Gly Phe Leu
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<210> 555

<211> 71

<212> PRT

<213> Homo sapiens

<400> 555

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Pro Gln Leu Gly Ala Thr Ala Gln Gly Lys Val His Met Gly Leu Ser
 20 25 30

Thr Ala Gln Gly Ser Ile Gln Asp Ile Lys Val Pro His Ser Ile Asp
 35 40 45

Leu Val Ala Lys Lys Lys Lys Gln Thr Leu Ile Ser Phe Cys His Pro
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Ser Asp Pro Leu Glu Leu Leu
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<210> 556

<211> 81

<212> PRT

<213> Homo sapiens

<400> 556

Asn His Pro Glu Gln Gly Ser Ser Thr Pro Arg Pro Gln Thr His Thr
 5 10 15

Ser Pro Arg Thr Ile Met Asn His Thr Thr Gln Glu Glu Val Ser Thr
 20 25 30

Arg Gln Ala Lys Glu Ala Ser Pro Val Leu Thr Ala Thr Arg His Gly
 35 40 45

Ser Tyr Tyr Ser Leu Asn Ser Ala Ser Thr Gln Ile Ser Asp Asn Ile
 50 55 60

Arg Asn Ser Leu Glu His Glu Pro Cys Cys Glu Leu Pro Ile Arg Arg
 65 70 75 80

Ile

<210> 557

<211> 54

<212> PRT

<213> Homo sapiens

<400> 557

Ser Leu Ser Ala Thr Pro Leu Thr Leu Trp Asn Ser Ser Asp Pro Leu
 5 10 15

Glu Gln Ala Tyr Leu Ile Ser Ala Arg Glu Lys Thr Asn Asn Gly Leu
 20 25 30

Lys Gly Ser Leu Thr Met Lys Val Ser Ala Asn Ser Trp Leu Arg Cys
 35 40 45

Gly Phe His Ile Arg Phe
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<210> 558

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1)...(77)

<223> Xaa = Any amino acid

<400> 558

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Ile Tyr Phe Thr Asn Leu Thr Ser Cys Leu Ser Val Gln Asn Gln Thr
 20 25 30

Phe Thr Cys Thr Lys Arg His Lys His Leu Gln Cys Ser Ser Val His
 35 40 45

Leu Cys Lys Ile Pro Pro Arg Leu Lys Gly Arg Asp Lys Lys Lys Lys
 50 55 60

Pro Ser Tyr Leu Ser Gly Val Leu His Ser Arg Ser Tyr
 65 70 75

<210> 559
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 559
 Thr Leu Pro Pro Leu Arg Ser Val Ile Thr Leu Glu Thr His Trp Ser
 5 10 15
 Thr Asn Pro Val Val Asn Cys Leu Ser Glu Gly Ser Arg Leu Cys Ala
 20 25 30
 Ser Tyr Glu Asn Leu Met Pro Asp Asp Leu Ser Leu Ser His Phe Ala
 35 40 45
 Pro Arg
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<210> 560
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 560
 Ile Gly Ser Leu Lys Gly Pro Thr Thr Ala Gly Ser His Cys Ser Gly
 5 10 15
 Glu Gly Ser Tyr Gly Thr Phe Tyr Cys Pro Arg Phe Tyr Thr Gly Tyr
 20 25 30
 Lys Gly Ala Ser Gln Tyr Arg Ser Gly Ser Lys Glu Glu Glu Thr Asn
 35 40 45
 Thr Asp Leu Phe Leu Pro Pro Leu
 50 55

<210> 561
 <211> 57
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (1)...(57)
 <223> Xaa = Any amino acid

<400> 561
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 20 25 30

1603036900

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<400> 563
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Lys Gln Gln Pro Pro Ala Leu Ala Pro Gly His Pro Asp Phe Ile His
      20                      25                      30
Thr Gln Asn Glu Gln Ile Asp Pro Ser Pro His Ile Gln Asn Leu Met
      35                      40                      45
Trp Asn Pro His Leu Ser Gln Glu Leu Ala Glu Thr Phe Met Val Arg
      50                      55                      60
Asp Pro Leu Arg Pro Leu Leu Val Phe Ser Leu Ala Asp Ile Arg
      65                      70                      75

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<210> 564
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 564
 Ala Cys Ser Lys Gly Ser Glu Glu Phe Gln Arg Val Arg Gly Val Ala
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 Glu Arg Asp Gln Cys Leu Phe Leu Leu Leu Cys Tyr Gln Ile Tyr Thr
 20 25 30
 Val Arg His Leu Tyr Ile Leu Tyr Arg Thr Leu Gly Ser Arg Lys Ser
 35 40 45
 His Met Asn Leu Pro Leu Ser Ser Gly Ser Gln Leu Trp Leu Ala Pro
 50 55 60

<210> 565
 <211> 57
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (1)...(57)
 <223> Xaa = Any amino acid

<400> 565
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 Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln
 20 25 30
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 35 40 45
 Tyr Ala Val Ser Ser Xaa His Asn Val
 50 55

<210> 566
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 566
 Ile Leu Leu Glu Phe Phe Arg Asn Gln Arg Gly Ser Leu Asn Pro Arg
 5 10 15
 Lys Thr Val Pro Phe Ile Lys Ser Glu Gly Gly Glu Lys Lys Gly His
 20 25 30

16303000

Cys Asn His Ser Val Val Ser Ile Asp Ser Ala Ala Ala Leu Leu Pro
 35 40 45

Leu Lys Leu Val Leu Leu Pro
 50 55

<210> 567
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 567
 Tyr Ser Asp Phe Asp Val Phe Cys Ser His Thr Tyr Gly Tyr Met Leu
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Ser His Cys Ser Gln Ser Ser Ser Pro Leu Leu Trp Pro Leu Gly Ile
 20 25 30

Leu Thr Leu Ser Thr His Lys Met Ser Lys Leu Thr Leu Pro Pro Ile
 35 40 45

Phe Arg Thr
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<210> 568
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 568
 Lys Val Gly Glu Tyr Ile Leu Gln Ser Leu Leu Arg Ile Arg Lys Ile
 5 10 15

Tyr Val Ala Phe Asn Ser Val Pro Ser Thr Cys Leu Leu Ala Ser Leu
 20 25 30

Thr Glu Thr Pro Val Thr Thr Ile Leu Thr Ile Ile Ile Asn Leu Thr
 35 40 45

Cys Phe Gln His Ala Glu Ser Ser Tyr Leu Phe Tyr Pro Leu Ala Asp
 50 55 60

Phe Leu Leu Gln His Ile Ser Leu Gly Lys Leu
 65 70 75

<210> 569
 <211> 4809
 <212> DNA
 <213> Homo sapiens

<400> 569

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<210> 570
<211> 951
<212> DNA
<213> Homo sapiens
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<210> 571

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Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg
          20                      25                      30

Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu
          35                      40                      45

Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu
          50                      55                      60

Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala
          65                      70                      75                      80

Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly
          85                      90                      95

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<212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (1)...(68)
 <223> Xaa = Any Amino Acid

<400> 576
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 Thr Val Cys Tyr Leu Ala Ser Ser Ser Ala Ser Arg Glu Thr Ala Thr
 20 25 30
 Arg Gln Ala Pro Gly Asn Trp Lys Met Xaa Ser Lys Cys His Ala Gln
 35 40 45
 Leu Leu Phe Thr Phe Tyr Leu Asn His Phe Tyr Gln Ile Arg Leu Asn
 50 55 60
 Pro Gly Tyr Ser
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<210> 577
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 577
 Met Tyr Leu Glu Asn Ser Phe Tyr Cys Gln Met Ile Leu Leu Lys Arg
 5 10 15
 Cys Arg Leu Ser Lys Ile Ser Thr Gln Arg Val Val Pro Asp Gly Pro
 20 25 30
 Pro Ala Pro Val Pro Gly Ser Phe Pro Met Phe Pro Arg Phe Gly Phe
 35 40 45
 Arg Leu Ala Pro Pro Ala Asp Thr Pro
 50 55

<210> 578
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 578
 Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu Leu Tyr Ile Arg His
 5 10 15
 His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr Lys Lys Leu Asn Tyr

20 25 30
 Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His Ile Ala Lys Val Tyr
 35 40 45
 Gln Pro His
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<210> 579
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 579
 Met His Phe Thr Phe Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu
 5 10 15

Leu Tyr Ile Arg His His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr
 20 25 30

Lys Lys Leu Asn Tyr Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His
 35 40 45

Ile Ala Lys Val Tyr Gln Pro His
 50 55

<210> 580
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 580
 Met Glu Leu Arg Thr Lys Ala Leu Arg Thr Ala Gln Gln Leu Thr Ser
 5 10 15

Cys Val Thr Ala Leu Lys Ala Ala Gly Pro Pro Leu Thr Phe Trp Lys
 20 25 30

Gly Lys Trp Val Gln Cys Cys Leu Pro Leu Trp Gly Leu Leu Gly Ser
 35 40 45

His Ala Phe Tyr Ile Tyr Ala Val Asp Ile Phe Met Phe Pro Gly Ser
 50 55 60

Phe Ile His
 65

<210> 581
 <211> 77
 <212> PRT
 <213> Homo sapiens

<210> 584
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 584
 Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
 5 10 15
 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
 20 25 30
 Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
 35 40 45
 Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
 50 55 60
 Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
 65 70 75

<210> 585
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 585
 Met Val Tyr Arg Phe Gly Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu
 5 10 15
 Ala Ser Leu Gly Ser Ser Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp
 20 25 30
 Arg Gln Ala Asp Pro Ser Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu
 35 40 45
 Leu Phe
 50

<210> 586
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 586
 Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly
 5 10 15
 Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
 20 25 30

Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
 35 40 45

Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
 50 55 60

<210> 587
 <211> 1408
 <212> DNA
 <213> Homo sapiens

<400> 587
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<210> 588
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 588
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Leu Gln Phe Arg Gln Tyr Asn Lys Ser Val His Glu Val Asn Leu Lys
 20 25 30

Gly Ala Cys Phe Thr Val Ala Gly Leu Pro Arg Ala Trp Thr Thr Gln
 35 40 45

Tyr Ser Ile Ile Asp Lys Arg Ile Arg Gln Glu Ile Tyr Thr Cys Cys
 50 55 60

Leu Ala Phe Val Val Ile Tyr Thr Asn Glu Asn Met Tyr Tyr Ser Tyr
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Ile

<210> 589

<211> 157

<212> PRT

<213> Homo sapiens

<400> 589

Met Thr Met Cys Leu Cys Val Ala Pro Met Gly Arg Ala Thr Arg Met
 5 10 15

Ser Val Thr Cys Asp Arg Leu His Ala Asn Ser Arg Val Arg Tyr Leu
 20 25 30

Trp Cys Gln Lys Asp His Val Pro Gln Met Gln Asp Gln Asp Leu Glu
 35 40 45

Met Glu Ser Met Lys Ala Leu Glu Lys Leu Val Lys Arg Arg His Pro
 50 55 60

Pro Val Ile Phe Ala Ser Leu Val Gln Asn Val Thr Lys Met Pro Arg
 65 70 75 80

Met Ser Gly Val Cys Val Ile Leu Thr Val Leu Lys Pro Thr Ser Ile
 85 90 95

Pro Ser Ala Leu Leu Met Gly Asn Leu Met Ile Met His Ala Lys Ser
 100 105 110

Lys Lys His Arg Val Arg Asn Arg Arg Lys Leu Lys Ser Cys Leu Trp
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Val Asp Val Lys Ile Thr Gln Leu Gln Leu Leu Ser Leu Lys Met Gly
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Ile Met Gln Glu Gln Ile Met Gln Arg Met Leu Thr Asn
 145 150 155

<210> 590

<211> 347

<212> PRT

<213> Homo sapiens

<400> 590

Met Leu Leu Ile Val Ala Arg Pro Val Lys Leu Ala Ala Phe Pro Thr

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			20					25					30		
Asp	Asp	Arg	Glu	Asn	Asp	Leu	Phe	Leu	Cys	Asp	Thr	Asn	Thr	Cys	Lys
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Gln	Phe	Lys	Cys	Asn	Asn	Asp	Tyr	Val	Pro	Val	Cys	Gly	Ser	Asn	Gly
	65					70					75				80
Glu	Ser	Tyr	Gln	Asn	Glu	Cys	Tyr	Leu	Arg	Gln	Ala	Ala	Cys	Lys	Gln
				85					90					95	
Gln	Ser	Glu	Ile	Leu	Val	Val	Ser	Glu	Gly	Ser	Cys	Ala	Thr	Asp	Ala
			100					105					110		
Gly	Ser	Gly	Ser	Gly	Asp	Gly	Val	His	Glu	Gly	Ser	Gly	Glu	Thr	Ser
		115					120					125			
Gln	Lys	Glu	Thr	Ser	Thr	Cys	Asp	Ile	Cys	Gln	Phe	Gly	Ala	Glu	Cys
	130					135					140				
Asp	Glu	Asp	Ala	Glu	Asp	Val	Trp	Cys	Val	Cys	Asn	Ile	Asp	Cys	Ser
	145					150					155				160
Gln	Thr	Asn	Phe	Asn	Pro	Leu	Cys	Ala	Ser	Asp	Gly	Lys	Ser	Tyr	Asp
			165						170					175	
Asn	Ala	Cys	Gln	Ile	Lys	Glu	Ala	Ser	Cys	Gln	Lys	Gln	Glu	Lys	Ile
			180					185					190		
Glu	Val	Met	Ser	Leu	Gly	Arg	Cys	Gln	Asp	Asn	Thr	Thr	Thr	Thr	
		195					200					205			
Lys	Ser	Glu	Asp	Gly	His	Tyr	Ala	Arg	Thr	Asp	Tyr	Ala	Glu	Asn	Ala
	210					215					220				
Asn	Lys	Leu	Glu	Glu	Ser	Ala	Arg	Glu	His	His	Ile	Pro	Cys	Pro	Glu
	225					230					235				240
His	Tyr	Asn	Gly	Phe	Cys	Met	His	Gly	Lys	Cys	Glu	His	Ser	Ile	Asn
			245						250					255	
Met	Gln	Glu	Pro	Ser	Cys	Arg	Cys	Asp	Ala	Gly	Tyr	Thr	Gly	Gln	His
			260					265					270		
Cys	Glu	Lys	Lys	Asp	Tyr	Ser	Val	Leu	Tyr	Val	Val	Pro	Gly	Pro	Val
		275					280					285			
Arg	Phe	Gln	Tyr	Val	Leu	Ile	Ala	Ala	Val	Ile	Gly	Thr	Ile	Gln	Ile

290

295

300

Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys Pro Arg
 305 310 315 320

Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr Ser Ser
 325 330 335

Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
 340 345

<210> 591

<211> 565

<212> DNA

<213> Homo sapien

<400> 591

actaaagcaa	atgaacaagc	tgacttgcta	gtatcatctg	cattcattga	agcacaagaa	60
cttcatgcct	tgactcatgt	aaatgcaata	ggattaaaaa	ataaatttga	tatcacatgg	120
aaacagacaa	aaaatattgt	acaacattgc	accagtgctc	agattctaca	cctggccact	180
caggaagcaa	gagttaatcc	cagaggtcta	tgtcctaata	tggtatggca	aatggatgtc	240
atgcaagtac	cttcatttgg	aaaattgtca	tttgtccatg	tgacagttga	tacttattca	300
catttcatat	gggcaacctg	ccagacagga	gaaagtactt	cccatgttaa	aagacattta	360
ttatcttggt	ttcctgtcat	gggagttcca	gaaaaagtta	aaacagacaa	tgggccaggt	420
tactgtagta	aagcatttca	aaaattctta	aatcagtgga	aaattacaca	tacaatagga	480
attctctata	attcccaagg	acaggccata	attgaaggaa	ctaatagaac	actcaaagct	540
caattgggta	aacaaaaaaaa	aaaaa				565

<210> 592

<211> 188

<212> PRT

<213> Homo sapien

<400> 592

Thr	Lys	Ala	Asn	Glu	Gln	Ala	Asp	Leu	Leu	Val	Ser	Ser	Ala	Phe	Ile
1				5				10					15		
Glu	Ala	Gln	Glu	Leu	His	Ala	Leu	Thr	His	Val	Asn	Ala	Ile	Gly	Leu
			20					25					30		
Lys	Asn	Lys	Phe	Asp	Ile	Thr	Trp	Lys	Gln	Thr	Lys	Asn	Ile	Val	Gln
			35				40					45			
His	Cys	Thr	Gln	Cys	Gln	Ile	Leu	His	Leu	Ala	Thr	Gln	Glu	Ala	Arg
			50			55					60				
Val	Asn	Pro	Arg	Gly	Leu	Cys	Pro	Asn	Val	Leu	Trp	Gln	Met	Asp	Val
65					70					75				80	
Met	His	Val	Pro	Ser	Phe	Gly	Lys	Leu	Ser	Phe	Val	His	Val	Thr	Val
				85					90					95	
Asp	Thr	Tyr	Ser	His	Phe	Ile	Trp	Ala	Thr	Cys	Gln	Thr	Gly	Glu	Ser
			100					105					110		
Thr	Ser	His	Val	Lys	Arg	His	Leu	Leu	Ser	Cys	Phe	Pro	Val	Met	Gly
			115				120					125			
Val	Pro	Glu	Lys	Val	Lys	Thr	Asp	Asn	Gly	Pro	Gly	Tyr	Cys	Ser	Lys
			130				135				140				

Ala Phe Gln Lys Phe Leu Asn Gln Trp Lys Ile Thr His Thr Ile Gly
 145 150 155 160
 Ile Leu Tyr Asn Ser Gln Gly Gln Ala Ile Ile Glu Gly Thr Asn Arg
 165 170 175
 Thr Leu Lys Ala Gln Leu Val Lys Gln Lys Lys Lys
 180 185

<210> 593
 <211> 271
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(271)
 <223> n = A,T,C or G

<400> 593
 acttttatgtt cnagtgcana aancncnctg gattgccacc ntactctcag ggctgtgant 60
 tgtgcnccca nagcaacctg ggcacgcggg gacagggggg ccnacaattg agggagcggg 120
 gtccttagct ggggtctata catgncnggg naagggcngc tgagtnccat nagcaaagga 180
 nctagnatnt gcgggggtgc ggcctgggcc taccctttna agcatccntn gatccactcc 240
 angaancnng gggtagncag gtttnccaac a 271

<210> 594
 <211> 376
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(376)
 <223> n = A,T,C or G

<400> 594
 cctttggggg nggggggaac ctttaccatt gtnccocctt atttcatttg gttnggggtc 60
 gcgcctcnn gggccaacaa agttatcgtn nttgaagaga anattttttt ggnttngncc 120
 cgattaagcg ncaaattgtgt agcaaaangc cgtgccactt gtggcgtagc tncgtcgggt 180
 cgattcgacg acaaggcgtn gcgcgntanc gttagtctcn aatngaccen gtggcatgag 240
 cccacgangg ntctgtgtcg tcacatggnc tctagacata acgcnncnccn ttttttncag 300
 agggggntgc cgcccttagg gaggnagggg tggggacact agccaancca nantctnacc 360
 ccattgaaga aaaggn 376

<210> 595
 <211> 242
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(242)
 <223> n = A,T,C or G

<400> 595

```

agnctgctgn tcgtncctn tatgtggctt catnntgagg acaanagtng cactgaggct      60
tgngnatgcc aggcaaggnc aagctggctc aaaaagcatc caccacctc tgnaanggggt    120
atgccangag cangtgcacc agtcccaact angagnccn ggcatgntac atcttcttcc     180
acccctnaaa ntttgngcta caangnccat ttttcttttt ctcttaaggg ncnctggct     240
tc                                                                    242

```

```

<210> 596
<211> 535
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(535)
<223> n = A,T,C or G

```

```

<400> 596
accagttaga tactgctaaa nagatattta tgcagcctca tatgttaagt cgtatatttt      60
gaaagctttt taaatttttt cttaagaag attttagatg cttatcactg agtaccagag     120
ggatgtaggc tgatgccctt atcaacaag tcagggactg tggcacacaa ggattgacta     180
ctgcagacac ggccacaatg ctacctctag agggcctgaa tccccctgcc ctctctgggtg   240
gggagaaggg ctggcagagc cattagcatg ggctccggcc aatcctggcc actttgacac     300
tcctgggtgct gaccaggggt cctggaggaa gggatgagggt gggcagtaga gatgctcagg   360
gcagtggccc ctttccatcc aactggaac tatttcagta ttttaccacc aattcagcca     420
ttcccttggtg cgctgggtga acatcagccc tgctccagggt ctcaagtttcc cctttgtaaa   480
gggaaagctc tggattcagg gagtgatgaa gaggtcatca tgggtcttgag aattc       535

```

```

<210> 597
<211> 257
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(257)
<223> n = A,T,C or G

```

```

<400> 597
tttcnatacc caaaantacc ccatattang accanacatt tgtctnggaa aaattaccat      60
tntntaacnt ttgggccacc tgagannaaa tgggtgtaat ncatgataag atggancagn     120
attnctctta agatnngatn agaccccgtt tttcacggaa catatccaag nacccaatag     180
gnaacaagcc acgggnggag tcacaaacat atattcttta ctctcataat ccgtnnacaca   240
naactnttgn acttgac                                                                    257

```

```

<210> 598
<211> 222
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(222)
<223> n = A,T,C or G

```


<400> 598
 nntggntacc gtcnaaaactt nncttggtac ccgagctcgg atccactagt ccagtgtggt 60
 ggaattccat tgtgttgggc tataagctgt aatagtggag nctgtctngg ttcattgcan 120
 nagnccctcc gcanncacnc ttggnacaac ctgtgagnag gcataaaatt attcacataa 180
 tcactactgc atgaanctga ctcaaacgca tccacntaca cc 222

<210> 599
 <211> 238
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(238)
 <223> n = A,T,C or G

<400> 599
 gcacgacatc ancgatgtnt ttggnnacct ganattngct aaaactngng natgccgggn 60
 atgnaggttt ggtantgatc tatgcactca catctcatgg ggacgtttca tgtggagtgn 120
 tcgacaangt tgctgnancn gagaagtgat gatctcagtt gaaaggggtca tgtgaataca 180
 cnttacactt gaaaaagaag cacattggga atatcacgaa acgnccacca acatcctg 238

<210> 600
 <211> 232
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(232)
 <223> n = A,T,C or G

<400> 600
 cgaactatth agactaccta ggaaaattat tttagtatca gaagaatatc aggggtgtag 60
 tactcatcag agctaaatga gagcgcttta aaaatgttag tttgtcttcc gccatttcta 120
 cagaaagctg caatttcagg ttttcaacct aataggtgat atttaanaaa aaaaaaaagc 180
 aatcgcaaat agccccactg cttttacaaa tcattttttc cccaacacaa tg 232

<210> 601
 <211> 547
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(547)
 <223> n = A,T,C or G

<400> 601
 cattgtgttg gggaaaaaat gatttgtata agcagtgggg ctatttgcca ttgctttttt 60
 tttttcttaa atatcaccta ttaggttgaa aacctgaaat tgcagctttc tgtagaaatg 120
 gcggaagaca aactaacatt tttaaagcgc tctcatttag ctctgatgag tactacaccc 180
 ctnatattct tctgatacta aaataatttt cctagtgtag tctaaacttt tttaaaaaga 240
 catgtaatcc gcggagttag taactcaaaa cgagtgcac tnggaagtat cgcagccggt 300

```

nctggatnaa attcccagct tgcctngcttg ctnagccggg gggcggtnaa aaaaacatct 360
gcagcccngg ggnaaaaacc ttgcattgtg tcttacgtgt ttacgttatt ttatttcctt 420
nnagcaaggc nggganttg ggactcgaaa tggtagagtt gggctgggga tgcacctgtg 480
tacataaaag nctccagaa gagggacggg tacaggcngg gantccaaa ggtagtccc 540
tgccatt 547

```

```

<210> 602
<211> 826
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(826)
<223> n = A,T,C or G

```

```

<400> 602
cgggggggnnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg 60
taccattcga gtcctactc ctgccttgct ctagggaaat aaaataacgt aaacacgtaa 120
gaacaatgcg aaagcgtttt ctccctagg ctgcagattg tcttcttcac cgcccctgct 180
tagctagcta gctagctggg aatttaatcc agaaacggct tgcgatacct cctagatgca 240
ctcgttttga gttacaaact ccgcggatta catgtctttt taaaaaagtt tagactacac 300
tagggaaaat tatttttagta tcagaagaat atcagggggg gtagtactca tcagagctna 360
atgagagcgc tttaaaaatg ttagtttgct ttccgccatt tctacagaaa gctgcaattt 420
caggttttca ncctaataag tgatatntaa gaaaaaaaaa acaatcgcan atagcccact 480
gcttttacaa atcatttttc tcttctaggc atagcctgtc aggtggccta atgtattttt 540
gacatctcta ggaattttta tagaccagaa atgggtgccg gagatatgcc tgcactaatc 600
ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaactag gcacgaatga 660
aatcaagatc tttaggccag aaatcatgaa nanttttana attattttan gaatctgtgg 720
cttctcttct taaaatngaa aaaaaaattg tttaaaccca naaggctctga ataccaagc 780
nccctgaacn anagaacaan gccggagcac ccctcccaa atcccc 826

```

```

<210> 603
<211> 817
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

```

```

<400> 603
nnangacttt tgtggtnnta tacaattntt ttttctattt ctatgaagag aaagccacag 60
agtccataaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa 120
tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt 180
agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa 240
aattacatta ggccacctga caggctatac ctagaagaga aaaaatgatt tgtaaaagca 300
gtggggctat ttgcgattgc tttttttttt tcttaaatat cacctattag gttgaaaacc 360
tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgtcttc 420
atthagctct gatgagtact acacccctga tattcttctg atactaaaat aattttccta 480
gtgtagtcta aactttttta aaaagacatg taatccgcgg agtttgtaac tcaaaacgag 540
tgcattctagg aggtatcgca agccgtttct ggattaaatt cccagctagc ttgcttgctt 600
agcaggggag ggnaaaaaag acatctgcag cctaggggaag aaaacctttc gcattgttct 660

```

```

tacgtgttta cgttatttta tttcctanaa caaggcngaa ttgggactcg aatggttcag      720
ttgggggtggg ggatcccctg gtncataaaa ngtcanaaag anggtacagg cggaacncca      780
agggtcgtcc  tgcatttana ctcggaattt tgggtgcc                               817

```

```

<210> 604
<211> 694
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(694)
<223> n = A,T,C or G

```

```

<400> 604
cttttcaaatt cttttttnct cttctaggta tancctgtca ggtggcctaa tgtaattttt      60
gacatctcta ngaattttta tagaaccaga aatgggtgcc agagatatgc ctgcactaat      120
cttaagtggg gatttatgta tttctcaagc aagtgattaa agcaaaacta ggcacgattg      180
aaatcaagat cttttaggca anaaagtcac gatgagtttt agaattatct taggactctg      240
tggcctttctc ttcataagaaa tagaaaaaaa aattgtataa aaccacaaaa ggtcctgaat      300
agccaaagca acactganca aaaagaacan agcaggaag caacacacta ccngaattca      360
aattatacta ccagggtgta gtaacaaaaa cagcattcta ttggcataaa atagacacca      420
agaccaatgg ancagaataa agaaccacac aaataaatcc atatatntac cgccanctga      480
ttatcaataa cnaacaccaa gaacatatnt taagggaacnt nctattcaat aantagtgtc      540
ggnaaaaaact gggaaatcca tatgcagaaa naatgaaact agacccttat ccctcaccat      600
acgcaaannt caacttcgga atgggattac aaaacttaag acattccaac ccaagaaact      660
atnaaancta ctattaagaa aacagatcnc nccc                               694

```

```

<210> 605
<211> 678
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(678)
<223> n = A,T,C or G

```

```

<400> 605
taaaaaatcta gactacacta ggaaattatt ttantatcag aagaatatca ggggtgtagt      60
actcatcana gctaaatgag agcgctttta aaatgttagt ttgtcttccg ccatttctac      120
agaaagctgc aatttcaggt tttcaaccta atagggtgata ttttaagaaaa aaaaaaagca      180
atcgcaaata gccccactgc ttttacaatt ctttttttct cttctaggta tagcctgtca      240
ggtggcctaa tgtaattttt gacatctcta ggaattttta tagaaccaga aatgggtgcc      300
agagatatgc ctgcactaat cttaagtggg gatttatgta tttctcaagc aagtgattaa      360
agcaaaacta ggcacgattg aaatcaanat cttttaggca agaaagtcac gatgagtttt      420
anaattatct taggactctg tggcctttctc ttcatagaaa tagaaaaaaa aaattgtata      480
aaaaccacaa aaggtoctga atagcccaaa gcaacactga acaaaangaa caaagcagga      540
agcaacacac taccggaatt caattatact accaaggtgt antaaccaaa acagcattct      600
attgggcata aaatagacca aagaccagtg ggaaacagaa taaagaancc caaaataaat      660
cctatattta cngccnc                               678

```

```

<210> 606
<211> 263

```

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(263)
 <223> n = A,T,C or G

<400> 606
 gtgggggtcng cancagccaa ctcagcttcc ttctggggtt tgtagcaga cggatcatcc 60
 tctagtccac tgtgtcaaa ttccattgtg tgggggccnc tcgcctcggc canagatctg 120
 agtgancana cntgtcccca ctgaggtgcc ccacagcngn ttgtnttcag cangggctna 180
 caactcgacc ggcagcgan ggctggcaga antgngcgcc tnnctcattc ctacgcngtn 240
 ngccgcagga aggangacag gcc 263

<210> 607
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 607
 ccatgtgggt cccggttgct tt 22

<210> 608
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 608
 gataggggtg ctcaggggtt gg 22

<210> 609
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 609
 gctggacagg gggcaaaagc tggggcagtg aaccatgtgc 40

<210> 610
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Primer

<400> 610

ccttggtccag atagcccagt agctgac

27

<210> 611

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 611

gatagagaaa accgtccagg ccagtattgt gggaggctgg gagtgc

46

<210> 612

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 612

gcacatggtt cactgccccca gcttttgccc cctgtccagc

40

<210> 613

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 613

gccgctcgag ttagaattcg gggttggcca cgatggtg

38

<210> 614

<211> 53

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 614

cggcgggcat atgcatcacc atcaccatca catcataaac ggcgaggact gca

53

<210> 615

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 615

gcactcccag cctcccacaa tactggcctg gacggttttc tctatc

46

<210> 616

<211> 1350

<212> DNA

<213> Homo sapien

<400> 616

atgcatcacc	atcaccatca	catcataaac	ggcgaggact	gcagcccgc	ctcgagccc	60
tggcaggcgg	cactggtcat	ggaaaacgaa	ttgttctgct	cgggcgtcct	ggtgcatccg	120
cagtgggtgc	tgtcagccgc	acactgtttc	cagaactcct	acaccatcgg	gctgggcctg	180
cacagtcttg	aggccgacca	agagccaggg	agccagatgg	tggaggccag	cctctccgta	240
gggcacccag	agtacaacag	acccttgctc	gctaacgacc	tcattgctcat	caagttggac	300
gaatccgtgt	ccgagtctga	caccatccgg	agcatcagca	ttgcttcgca	gtgccctacc	360
gcgggggaact	cttgccctcgt	ttctggctgg	ggtctgctgg	cgaacggcag	aatgcctacc	420
gtgctgcagt	gcgtgaacgt	gtcgggtggtg	tctgaggagg	tctgcagtaa	gctctatgac	480
ccgctgtacc	accccagcat	gttctgcgcc	ggcggagggc	aagaccagaa	ggactcctgc	540
aacggtgact	ctggggggccc	cctgatctgc	aacgggtact	tgcagggcct	tgtgtctttc	600
ggaaaagccc	cgtgtggcca	agttggcgtg	ccagggtgtct	acaccaacct	ctgcaaattc	660
actgagtgga	tagagaaaac	cgtccaggcc	agtattgtgg	gaggctggga	gtgcgagaag	720
cattcccaac	cctggcaggt	gcttgtggcc	tctcgtggca	gggcagctctg	cggcgggtgtt	780
ctggtgcacc	cccagtggtg	cctcacagct	gccactgca	tcaggaacaa	aagcgtgac	840
ttgctgggtc	ggcacagcct	gtttcatcct	gaagacacag	gccagggtatt	tcaggtcagc	900
cacagcttcc	cacacccgct	ctacgatatg	agcctcctga	agaatcgatt	cctcaggcca	960
ggtgatgact	ccagccacga	cctcatgctg	ctccgcctgt	cagagcctgc	cgagctcacg	1020
gatgctgtga	aggtcatgga	cctgcccacc	caggagccag	cactggggac	cacctgctac	1080
gcctcaggct	ggggcagcat	tgaaccagag	gagttcttga	ccccaaagaa	acttcagtgt	1140
gtggacctcc	atgttatttc	caatgacgtg	tgtgcgcaag	ttcacccctca	gaaggtgacc	1200
aagttcatgc	tgtgtgctgg	acgctggaca	gggggcaaaa	gctggggcag	tgaaccatgt	1260
gcctgcccgc	aaaggcccttc	cctgtacacc	aaggtggtgc	attaccggaa	gtggatcaag	1320
gacaccatcg	tggccaaccc	cgaattctaa				1350

<210> 617

<211> 449

<212> PRT

<213> Homo sapien

<400> 617

Met	His	His	His	His	His	Ile	Ile	Asn	Gly	Glu	Asp	Cys	Ser	Pro
1				5				10					15	
His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu	Val	Met	Glu	Asn	Glu	Phe
			20					25				30		
Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln	Trp	Val	Leu	Ser	Ala	His
		35					40				45			
Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly	Leu	Gly	Leu	His	Ser	Glu
	50					55				60				
Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met	Val	Glu	Ala	Ser	Leu	Val
65					70					75				80
Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu	Leu	Ala	Asn	Asp	Leu	Met
				85				90					95	

Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile
 100 105 110
 Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser
 115 120 125
 Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys
 130 135 140
 Val Asn Val Ser Val Val Ser Glu Glu Val Cys Ser Lys Leu Tyr Asp
 145 150 155 160
 Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln
 165 170 175
 Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly
 180 185 190
 Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala Pro Cys Gly Gln Val
 195 200 205
 Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Glu Trp Ile
 210 215 220
 Glu Lys Thr Val Gln Ala Ser Ile Val Gly Gly Trp Glu Cys Glu Lys
 225 230 235 240
 His Ser Gln Pro Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala Val
 245 250 255
 Cys Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His
 260 265 270
 Cys Ile Arg Asn Lys Ser Val Ile Leu Leu Gly Arg His Ser Leu Phe
 275 280 285
 His Pro Glu Asp Thr Gly Gln Val Phe Gln Val Ser His Ser Phe Pro
 290 295 300
 His Pro Leu Tyr Asp Met Ser Leu Leu Lys Asn Arg Phe Leu Arg Pro
 305 310 315 320
 Gly Asp Asp Ser Ser His Asp Leu Met Leu Leu Arg Leu Ser Glu Pro
 325 330 335
 Ala Glu Leu Thr Asp Ala Val Lys Val Met Asp Leu Pro Thr Gln Glu
 340 345 350
 Pro Ala Leu Gly Thr Thr Cys Tyr Ala Ser Gly Trp Gly Ser Ile Glu
 355 360 365
 Pro Glu Glu Phe Leu Thr Pro Lys Lys Leu Gln Cys Val Asp Leu His
 370 375 380
 Val Ile Ser Asn Asp Val Cys Ala Gln Val His Pro Gln Lys Val Thr
 385 390 395 400
 Lys Phe Met Leu Cys Ala Gly Arg Trp Thr Gly Gly Lys Ser Trp Gly
 405 410 415
 Ser Glu Pro Cys Ala Leu Pro Glu Arg Pro Ser Leu Tyr Thr Lys Val
 420 425 430
 Val His Tyr Arg Lys Trp Ile Lys Asp Thr Ile Val Ala Asn Pro Glu
 435 440 445
 Phe

<210> 618

<211> 385

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(385)

<223> n = A,T,C or G

<400> 618

ctgtgctgag	aaccaaaagc	tatgancact	gcttttccaa	atgtccataa	naccaacatt	60
tttatcacta	ccaccatcac	ctgggagctc	nttagaaagc	tagtctcccg	ggcaccaccc	120
tggcctactg	aacctaattgt	gcattttaaca	agattnacgt	ngaaatctgc	aaagcacagg	180
ggcngataac	agtaccacct	gntctgggttc	ctanccccc	gacccttaca	gtctaactgg	240
gacacaaggg	cttnaaatca	aattgcctat	cattaagata	tacaanganc	ntgagaaact	300
gctncactta	tntattaagg	ngctctaaga	cttagaaacn	aaangcantg	ctgagangat	360
tcaaatatga	ngggggncac	tttnc				385

<210> 619

<211> 869

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(869)

<223> n = A,T,C or G

<400> 619

gatatcccg	gaattcgcg	ccgcgtcgac	ctctacttgt	ttagacataa	atgcagtcta	60
gcattaaaga	tccttttaaaa	aaatgttttc	ccaatggtta	aaagacaagc	tcaaataaat	120
gaactctcat	acatatgcc	aaattgatga	gtagataaat	atttcagtag	gtagtacta	180
gctttctgtg	tatgagtaaa	catatgggag	aaatttaaaa	cactaaagta	gactcaatga	240
aagcatagta	tcctatgtat	tcgtttttca	gaaatgtcta	atgaaggaag	gaaacaatga	300
atgaatgccc	ttattcctct	tagagtgtctg	ggacatgggt	ttgcctgaaa	acttcagtgtg	360
aattttatat	tttgctacac	attacaccca	tcttagactt	atacgtataa	gacataaggc	420
atatottatg	tcttacatgt	ataataatct	aagcagaaca	aaaaataacg	aaatattttc	480
ttccccaat	ttttgagaca	gatggatttt	ccggaaagat	gtgttttagct	tttaatcctg	540
tggttttgtg	taccacctgg	cacactagag	tggtgctcta	attcagttag	ttgtaactct	600
gggtgaacag	tggaaatact	agggtacatt	ttaaaaatgc	taatgctcgg	gctcgcgtga	660
agaccaaat	aattggaatc	tctgnnggng	gnattgatct	ttttataatc	tttctanang	720
attctaattg	gcttccagg	atgaaaacn	ctgntggagc	tnggaacctt	ccttttagttt	780
ggagaaaccc	cgatgagggt	ntnttaggen	ccgcctnttt	ttggcctggg	cttccccct	840
tatntntttt	tgggaangnc	cnaattttt				869

<210> 620

<211> 339

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(339)

<223> n = A,T,C or G

<400> 620

gngcgggcct	cncggtgctt	gctctcgtctg	ccgacgctct	ttttccacca	gctgtaggan	60
aagcccgaag	accactgggc	ccccgggtag	cccaagtacc	actggctctc	ctggctcctg	120
acgctncggg	tcttctcgt	ggcgtagact	gccagcttcg	gagacccctc	agccccctcc	180
cgcttttctc	caccccagga	ggccatcagt	agcgagctac	tgctctcgcc	acaacctccc	240

<222> (1)...(681)

<223> n = A,T,C or G

<400> 623

```

aaaactgtac tcgcgcgctg catgtcgaca ctagtggatc caaagaatcg gcacgagcga      60
aaangctcan gcagcccggc tggccgcccgc cgctcctccc cccaggaaaag ccaangtggga      120
ngctgatgtg gctgcangag ctcgtttcac agccccctcan gtgganctgg ttgggcccgcg      180
gctgccangg gcggaagtgg gtgtccccc angtcagccc caaggctgcc cctcaciaaag      240
cactgggtgt ttgcctccac tgccaccttg ggctccgaac ccgctcccct gctgtggang      300
cccaccgtgg gaatccaggc ccccagggtg actgectgcc ttgccctcac tgcccactct      360
gcccacactt ccctgcctag anaccgggaa ggggctgtgt cggtantggt gcccacctgg      420
atgtggcagc accgactgtg ggggtggacc tggccttgcc ggggtgcaaaa gtggggggccc      480
ngggaaaagc acctgaagtg gccctgaaaa atccccccct aattttnccc caatttgggg      540
ctcnaacaaa aggaaattgc tgaagccaan ggtaccaagg tcaccacctaa ggccagggtg      600
aaaaggtccc aaaattccaa tccccacnt ttgggcttnc ctcttggaac cccggccccc      660
tctontgaan ttttaaaaaa n                                           681

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<210> 624

<211> 661

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(661)

<223> n = A,T,C or G

<400> 624

```

attggtctta ctgtaccacc ggggtgaaat cgatggccgc ggcgctctaaa tatccgattt      60
tttttttttt tctctttctg actgtccatg gacaaatgaa actaacttaa tctaactaaa      120
aaacacaact atattttgaa gattttctat ctgcactcaa ggacactttc caacnpggttg      180
ttgttacctt ttggtcttgt ctctgaacat gaaattnatc tcaagggtat ngattttctgg      240
acctcctatt cctgctatgg gtttgatatt tcttgggctc cagggccact gttgcattgg      300
gntgacagnt acctcctagc ccatanccct ctatcttggg aaacaaacct aacaactacg      360
tgtaccttcc atagatctct gattgagctc cagtatnccg ttgctcatgg gcgattcact      420
tgaatccgtn attggtgcca acaatcctga ctcatggggn aatggatcct atcacgttcc      480
cctgattngc aacccctgta tacatanatc taatcgcata gaatctagcn tnggntatgc      540
gcggctacgc tatcagggnt tgntaactat ngcatggcta cgaancctga tcatgatcna      600
gggtcatgga ctcttatcag ggggggttggg ccngncttct ttttcnnacc ttggtaaaac      660
c                                           661

```

<210> 625

<211> 181

<212> DNA

<213> Homo sapien

<400> 625

```

gcaacaatca gatcatgtta aagtaaatot ccattgccct ggatcacttc aggatttaat      60
tgtccaagga gagcagggtt ctctgtgtaa aaaaagggtg ggaaatgttt gagagtaaaa      120
aatacaaaat tcaaccggtc gaaaatacac cactccattc agtgctctac ccccataagc      180
c                                           181

```

<210> 626

<211> 181

<212> DNA
<213> Homo sapien

<400> 626
gcaacaatca gatcatgtta aagtaaactct ccattgccct ggatcacttc aggattttaat 60
tgtccaagga gagcagggtt ctctgtgaa aaaaagggtg ggaaatgttt gagagtaaaa 120
aatacaaaaat tcaaccggtc gaaaatacac cactccattc agtgctctac ccccataaagc 180
c 181

<210> 627
<211> 813
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(813)
<223> n = A,T,C or G

<400> 627
accaagctgg agctcgcgcg cctgcaggtc gacactagtg gatccaaagt gaacgtgaag 60
gtgagcagag gagaacttgc gatggcaaag ttaaaaacaa gaggagatga tggctcttgg 120
gtggcacagg atgttaaaaa aattctcctg tccttaagga gttactgcta tttgagtaat 180
gtgccacttc cctacatagc cttctatgca gaaatgctat atttccactt cacaacccag 240
aacgtgcatt ttatttttaca tttagaggag gaacaaacaa ccagaaggca aaaactgggtg 300
cattatTTTT tgcaattctc ttggaaagag ttcgttttta acttctgctc agacagcaca 360
caactactgg gaatatattt taatttcaaa tctgatgtgt gacatctggg aactcattta 420
ttgctaataga agttttcaca ggaagcagca gtcaccagta gctcatctta tttttcagtt 480
ggcaaagtgt tgtttacctt ttattggcct gcatcggtgt ctcttatcac aggatattta 540
attagaaaac gcaagtagcc taacatagaa nagaaatgga gtggtagata atagtagata 600
gaatggctaa atatttttat tacagtgatg taatatcact gnaatttatg gttaaaaatt 660
atgtaatact caaaaggaat tctcagactg gcgaaacagc tggncacagc ctntcacagg 720
gctttnanct cctnttgagc tttccccctg ntggacttta gtcttccttt tacncccgna 780
gttnccattn nttaccaatt gtnccgggaa ana 813

<210> 628
<211> 646
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(646)
<223> n = A,T,C or G

<400> 628
tttggngngn ggtgtctcnt ttgggtggac tttttgggtc gtagggcccc aaggccgtta 60
atcccgtaat aacggaagac gaagaagagt cagaagagtg cttctataag gatcgggacg 120
agactacctt agaggaataa aggaaaaaag cagaggagga agagtggtag aaggagtcag 180
aagaaaccca cactgcgttc tgaacctgga gccttatcaa aaaggtctag ataaacgata 240
gcgatctcga tatcgagctc aagaggtagg tttagagact tctcgtcctc gagagcgaaa 300
tggaagatct cgacgacgat aagaagttaa agtgtagagg gtgcttgagg agcgcgtgga 360
aggattctgc ggagggaccc atcgacgtag agacttgaag gcctactaag gtccacaaga 420
agcccggtc tttctccgaa tggtcggagc gtacagtatg cgacgtcgat cggcagacaa 480

```

gctggcggtta gactcgaagt gttcgggcga atcgacttat aatagtcgcg cgctagtaac 540
gtaggaacac gaagagtagt cgaaagaaaa cgtttagtga gggaaaagat tagggaaaaa 600
ggagaggctt aataactaag aacttggag cctaggccaa cgcgaa 646

```

```

<210> 629
<211> 617
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(617)
<223> n = A,T,C or G

```

```

<400> 629
gccccnccc ccctcctngg gcttatnngg acagaccac gtagtactct aaatcttctc 60
ctacgcgga caacggaccc tataccaatt cgaatcttgg aactccgac cgccggattc 120
tcttcccctt tgggcttccc ctttctgtcg gtaccctcc ctagtctgtc cctacacctt 180
cgtaccgtcg atatatagtc gccgcggact agcctattta ggtgtcctag actcgttatt 240
gatccactca ttagtctagt actatgcgtc acgtatctta gttgcctaag agggagatta 300
aatcctccac aagttccgac gaattcctgg actctcgtac tagcaaactt tcttatgagg 360
cttccttgta tatcttctgg atgtttctcg tgtcccgtc ctccgctact actagagctc 420
cttgccctat ctctagaagt agaggactct cgggttcgtt ctccaaatct agcgctagag 480
ctatcgctac ccgctcgatt cccccagcgg aatcttgaaa cctgaggtag tacacaaacc 540
ctcncatct tccctcggtt gtccttctt ctcaccccc cttcccgcct tctcggaan 600
gaatctactt tancttc 617

```

```

<210> 630
<211> 644
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(644)
<223> n = A,T,C or G

```

```

<400> 630
cnntcggcnt gggttttntt ctgagnncc ccccccccc ccccccaaa cttacacca 60
ccaaacactt tccgccccct acctaggaga cattagaagg gtttaggctt cggcgtatag 120
taaagtcctc tacctcgga gtagagaatt cggatattta attcagggtt agaggctcgc 180
tcgttagatt tatagtttag gtttagaata ggaaaccttc gatcttcctt agaagggtaa 240
taagtgaggc cctaaatccg totaaccaag gcgttaaggt ccgtacctaa acctagtctt 300
atcttctatc aggcgcacca atataggtag gttctacttt cgtataggcc ttaaggaata 360
gttcggtagt tatcgaaggc actcctctct aggctaggct tttctcagtc ttagtactcc 420
gggaccgtcg tcgcanaaat atcgatggac ggtagggtac tccgcgttac gcgtcgggct 480
agggatatag agcgaattat cggcgagagg cggtcgctan gaatcggtat caatatgntg 540
ttctttacc tacggatata ggcagaaaac ataaaacctt ctnaccangg ataagggtatt 600
atcggacccc taaaataaca gtaacattta gantactagt accc 644

```

```

<210> 631
<211> 526
<212> DNA
<213> Homo sapien

```

<220>
 <221> misc_feature
 <222> (1)...(526)
 <223> n = A,T,C or G

<400> 631
 ccntcggctt gggttttttt ctgagccccc cccccccccc cccccccccc cccccccggc 60
 cccatagccc caccggnccc acccaaattt taacaaaata aatntaccta tcgntcacct 120
 atcccnegta tcgngtaggt cggtagccgt accgngatc ncnacgattn ttcgggtcgt 180
 cncccttaan acggncccggt agccnccgga anaaatacta cgagngactc taatntagca 240
 anaccgccc tcnattanta gcatcccttag tcttccaatg ncnnggattn ngaatccttn 300
 naagttatcg ggtagaacgg gtcccggtcc cccgccctct ttncaattaa cgcggggtac 360
 aaantcgggt tctaaattcc ncacgaattt ngncgggcaac attcnccgggn ccttattanc 420
 cntttccaac cccgatacnc nagctcgatc gggctttanc gaatccgggg tcncccccca 480
 ngantccggg tcctttgagt ngctctagga cggttacgac ggagga 526

<210> 632
 <211> 647
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(647)
 <223> n = A,T,C or G

<400> 632
 tttggngggc gggngctcat ttgggtggac tttttgggtc gtaggaacct ggtatgaggg 60
 gtgttttgag tttcttcttc gtcgtctctg ggaggttcgg tttcgattga gattcggggt 120
 cgtctttatc ttacgaggca ccctgatatt gttgcgcttt ggtttggttg tggagagttt 180
 tgtcctactc tagcgggtca tgcggatgat atgtagcctg cgtggcctga tagtgatggt 240
 gtgagcttga gaggggagtt gtgggtgttg cgggcggagt aggaggggtt ggagcaccgg 300
 gattgggaga tatagaatca taagtgttag gtataggctg attgagcgag ttcgtggaat 360
 tcgtgtgggtc atcataatta gagtgaggat gggctctata tttcttagag gacgcacggt 420
 cgtgattcgg ggtttgatgg gtgttcttct tgtgggcacg attagcttgt tcatgatggt 480
 aaggaccata ctgtttcgaa tgaggattcg tgtcttcgga ttgttggtga tattgtggnc 540
 tanactattt agtgtaagcc ggaggtggtt tgccgtggtg gagtatccga nnttcattcg 600
 ganggtatgc gtgcggagcg gtcctttag acattccgga aaaatgg 647

<210> 633
 <211> 630
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(630)
 <223> n = A,T,C or G

<400> 633
 tccttcgggt tgggtttttt tctgaccccc cccccccccc ccccctcgga aggcccttag 60
 gctcccaccc gtctctctaa tctcaggaa ccgatccacc caaccaactt actaatgtcc 120
 tacagtaaac acccgagaat ataaaccac acctaggcct ccaatcctac cagggaagca 180

```

agaagccgta gtctagcgta ttacgaaccc gagatagaga cggagatact tagttttatt 240
ctctcggaaat aggaaagacg actggggagg gaatataggc tagcgcgggg ataggggcta 300
tggcggatat gggggcgggt cgctctctta ttcttctata ccacgtcaat aggaatgtag 360
atatacctag atgttcccgt agaaagagac gttagaggtc tccgaagcta taaaggagag 420
gcgcgaagaa acttcgtact ctagctttat ataggtagtc gctctagtcc cataagcgac 480
gagagatcta ctagatttcg gtatcgccgt cgtatgtatt cgaaatagtc ttcttcccct 540
tttcgatctc ctctctatac tacatggnga ttatagtcnt aagatagtca ggatattagg 600
atattagtta tatgacgttc gacgggacgg 630

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<210> 634
<211> 647
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(647)
<223> n = A,T,C or G

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<400> 634
ccntcggtt ggggtttttt ctgaccccc ccccccccc cctccactaa gancttaacc 60
caaccctata gtttactcgt ataggggaat cgaggagaaa taggaacgaa gagcgggtga 120
taaagagaaa gtactttcct ttatatgtta agagcttagc gtaatgactt tcgttatatg 180
gctagttgat tttatccggc gttatagggc ttagttctgg ttatctcggg tctaattccc 240
ttagtatgct cgggagttta acgaggtcac gggatagcgc gtaccctttc taaggttcct 300
ggaaagctat tcgttattta tcgcgattct cgaggtcgaa aggatcaagg atcttcccct 360
ttactaccct agtcgggtta gcggtcggtc aaaactagt tagtaccttt acctcctcga 420
aagttatagt cgaaacaacg tatttagtca aattatagcg gatagatcga gacgggttct 480
tctcgggttc tcagccggta atccctctat ttgggggtct tctccctctt cccctttgtc 540
ttccgcctta gcttccaagg ttccctcgaa gcgaggggtt ctacttaagt cgnntagcgtt 600
ccttataaac cncctacagg cagaccccc tgtaaacggc tcgggggt 647

```

```

<210> 635
<211> 645
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(645)
<223> n = A,T,C or G

```

```

<400> 635
ccttcgggtt ggggtttttt ctgagcccc ccccccccc cccgaaactc gccttacctt 60
agatacccaa agaatagttc cactcaactt cgtctaagta aaactctaga acttccaaac 120
ataaaagact tcgcgcgggt agctacacag cctacgggaa tctcacgaat cccgattcaa 180
gtcccactct cgaccacacc ccggtatcgt cgttttccca taccaatgtc gaaaaataaa 240
ataaaatcca gtcaagcccc acggtaaagc ggggtagggc taggcgaaga ggcaggaacc 300
gttcgaggcc gggggtttt aaaatacaaa acaactactt aaagtttacc ctttctaaag 360
tcgggggcaa cgggttaaagc acgcctctaa agtactactc gtttcgagaa ggggtagtca 420
tctccgcgat agagactctc gcgtatatca actcgcacgc cttctagcat tccgacggtc 480
gcccgcggct acatatcttg cggattagct ccgagggact ataggggtta ttagtctagt 540
aaattctctt agaggatagt cggggtcgta gttaggcagt acgaggggac atggnctgcg 600
tcgtgctcta ccttgacagc atactcttat aaacatcttt ttctt 645

```

<210> 636
 <211> 643
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(643)
 <223> n = A,T,C or G

<400> 636
 ccttcggctt gggttttttt ctgaccccc ccccccccc cctagcggaa aacaatcccc 60
 accgagattt tattaatcgt aaaactcgcc ttcggtacca agtcttcctc cttcccgtaa 120
 cctggctccc tcctagnngc tttacgaacg tccctcctct tcttacggct cggaagtgg 180
 tacggttaaa tccggaggng gggctaacga atccaaggct aactcctctt anagtttggt 240
 gtcncncgt ttagtaagga tccgtggagg gcgagtattt gncccccggc ctttattnta 300
 tagttcccta gtacgataaa gntaccggct atcctattac agcggataaa agttatttan 360
 agggccgacg tcnccgctag acaggctaca gctagnggag gtaccgcctc cgactantcc 420
 gttgnttccg acaaggngagt ttcggttaac tccacaaact cctccgccga ctctanggtg 480
 gggacggcag ttccncggtt tagtgtgcgt tatagagaag ggcatttgag ttggacgtta 540
 cnttttaaca taggttattc cgtttagggt cttgcgggcc cgtgggggta gtncnccggc 600
 gcgttnntat cggcgatttt ccgcagtttc cgtttccggg tnt 643

<210> 637
 <211> 631
 <212> DNA
 <213> Homo sapien -

<220>
 <221> misc_feature
 <222> (1)...(631)
 <223> n = A,T,C or G

<400> 637
 gggttntctc atttgggtgg acttttttggg tcgtaggaac cggatatgnag gagtaggagt 60
 cgctgggaag actagaagtt agctacggac gattagtgtg attccactct taataacgag 120
 taatcgttta cgtcgggttg gtgtttcggg gttttggaga gtaagcgtag ttgtggagtt 180
 tcgcatatag gtccccttac ttccggcgatc tcgtcttctg tcggttaggt tattattggt 240
 catccttcgc attagtagta gggttggctg gataaatcga tagctattct ttagaattcg 300
 tagtcggaga attcgtgtac gaagtccttt aagttcttta agttcgcgag taagacgtgt 360
 acggttattt tgcgtcgac gtaggtgtcg ttacgggag ttctgtttta ggggtttacg 420
 tagaacgtta ttaagcacgg taatacgata gaggattacg cgacgtattc gtcttagaac 480
 gtcgattttt cgaaggcgca tttgttatcg aaggggagtc cttggagaat cgagatatc 540
 caagaatatt acggagatta cagatcgga ggctcccgag atcggacgta ttaccggtct 600
 cgcccgaaac gagtaggtat cntccggata a 631

<210> 638
 <211> 606
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<222> (1)...(606)

<223> n = A,T,C or G

<400> 638

cccccccccc	ctcaaccatc	nattccccac	ctcaacgcga	attacggttt	cgaaagtcga	60
caataagtcc	ggtcgagtag	agggaaatcag	gggctggtan	aaaggaccac	gggcggaaaa	120
taccgggtctc	cttccgggga	gcgacgtcgg	ggaaagggaa	gagagcggtc	tagttcgtag	180
gcaaacaggt	cagaaaagt	aagggttaaag	gtcggagggg	agaggatagc	tagtacgctt	240
agttcggggc	tcgggcgcag	ggccactttc	ctctttcgcg	ttcctttact	ctgcttaoga	300
gttcaggctc	cggagttccg	cgccggaggt	cgtcgcgacg	ctaggaatgg	ggactcgctc	360
agtccecggt	tatccttcgg	gattctatgt	tttcgccgat	agacggagac	cgggtagtag	420
ggttccgctc	taccgccact	cgtcgccttg	atccggcccc	ctccgcttaa	ggcgatgaa	480
agattaggta	ttagggctct	acgggacgag	gcatagggcg	ggagaagggg	ggaggggtcg	540
ggggtcgaag	ggantaagaa	atcgcantcg	cgcggggtcg	gtagganccg	aaatttttct	600
cnnctgt						606

<210> 639

<211> 592

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(592)

<223> n = A,T,C or G

<400> 639

tccttcggt	tgggtttttt	tctgagcccc	cccccccccc	cccccgggaa	cgagaaaaca	60
atccccacct	accgcgggga	gtgggttgna	cgcttagttc	tagaatcctc	ggaatcgccc	120
tccggcggtg	gtagttccgg	cgattccgag	tatgccgaag	tgtatcgctc	cgtctagagg	180
ttggatatctg	tttatcgca	tgacgctatt	gactcgatg	ctttcgaagt	agggggatag	240
gcgcatagat	acgcctccgc	ggtgtcctct	gaagtggccg	catccgtgga	cgcagcgtag	300
acagctctgg	tggacgataa	cggcttctcg	tactcctact	ccggtatta	tgttagagag	360
gacttgtttc	tgaacggata	taccattagc	gaaggggtac	cctccgctaa	cgcaggcggt	420
tctaacagtt	cttccgggcg	ctccgaattt	agattgacgc	ctccgcagca	ttgtgggac	480
ctcttccggt	agccctcttt	ataggatttc	tcctccgccc	cgaaagangg	ctggtcgtcc	540
ccggcangta	tgtctagctc	gaacgctttg	ttactccttt	gttttcgaaa	na	592

<210> 640

<211> 637

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(637)

<223> n = A,T,C or G

<400> 640

ctttgtggcg	gtgngtgtct	catttgggtg	gacttttttg	gtcgtaggct	tatccgggtn	60
gggctcccga	agtagcttag	gatcgccggc	tagttccggg	cccggccgctc	gaaagcgcg	120
ttcggcgggc	ggcccccggt	tcgttcgogg	gctttaccct	catagagtgc	cagggtctcg	180
ttcttacggg	ttcgtcgggc	atagatttta	cggcgagagg	tcggtatctt	cgccgcttta	240
cgttcgggtc	gcattctacg	ctagttcaca	ggtagtttat	gcgccggagc	gcgtgacgga	300


```

gaggttatac gggacgcgga agaaccgcct ccaaatagact agtacaggct cgttcggggcg 360
tagatctcct cgctcgggtcg gcggttctta cttctagggc cgctctacgg ttttaaggcgg 420
tcgttagatc ttagaaacta tactcaagtt tcagtcggaa gaaaggaagt agagagaagg 480
gtaaacgatt acctccgggt ctagcccttt ttactcgcat aacgggagaa cgggggtccgg 540
ctctcagata cgctcgcga gacgtcgcga ttcaacttta acctccgcta gggcatccgt 600
atacgggtaa cgcggtaaaa gcgacctcgg aaaccte 637

```

```

<210> 641
<211> 649
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(649)
<223> n = A,T,C or G

```

```

<400> 641
ctntgtggcg gtggttgtct cagtttgggt ggatttttgg gtcgtaggna acctggtatg 60
aggtctagtt tcttcaacga ttcttgggtc agttacgcga ccctatcctt atcttacaat 120
gtcttctaca tcaggttcat caattaatat atcaattaca cattaacgac ggtgtgacgc 180
aatatgagaa agtatacatt aagggtatta tatattattc gcttaaaaag gttcctgaca 240
tgggacaact tcaccaccca ttctagaagc cccccctcct gtaggacccc ctcgagttcc 300
ccattatcct agttcagttt tcatttttta accaggaggg tatcggtttt taataggtac 360
tattttgtca aacttttcag aagctttatc ttcaaataata cttgcaccat ctgtactagg 420
agcactaact attcgagtct attacagctc aacagaaaat aattgaaatt aaacaacctc 480
agtatcgtcc accataaccc catcgggctc tcaccccat tcttcataag ttctagagca 540
tcctgagctc ttctctatta cccttgatgg tactcatggt ctaatacccc ccgcagttat 600
aggtccttat ggatcctatg ctaccaccgg tctaatecct tctatcacn 649

```

```

<210> 642
<211> 645
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(645)
<223> n = A,T,C or G

```

```

<400> 642
tccttcggct tgggtttttt ttctcgcggt gttactatta tcgattgtta cttgtaaagg 60
cgatactccc accgctcacg atattagacc tgctcctcta gaagcgaacg gcgataggtc 120
tactcggccg gcgaagacgg cgaacgggta ggaggagcca tatgcaaccc taacggagat 180
tataagtact gggaaaaata ctagtattaa ggtagcgggt taagatagggt ggagagacac 240
tattcacgag cataagcact tagaaggctt tctcgaggag aggtaggcta cggactacgt 300
tccttcttcc tctagcctcg agaggagta tagatgattc gcaaaagaga atccctccta 360
tacgtggca taactagacg acgcgtcgtc gggaaatctc gccaaccta ttgcgacctc 420
caaaaggaag attgtcgttt catagaacgc taatactcgg ggtcttcccg aatcatagcc 480
gcatacgggt aagaagacgg taaaatcgcg cgattctaac aagattctgt agacttaagg 540
ctaagcacta gaagcgatct cgattccgga tcttaagatc atactaatag ttcggtcaca 600
ccagacgacg attagccact agaagcccta ctccgtnгаа accgg 645

```

```

<210> 643

```

<211> 586
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(586)
 <223> n = A,T,C or G

```
<400> 643
ctttgtggcg gcggtgtctc atttgggtgg atttttgggt cgtaggaacc tggatatgcag      60
ggtccgcccg gaattaaaag cgggatcccc aaaacgnngn ttcgcaagaa gagaagaatc      120
atagcgatag anctttcata gtacaaaggt aactaagagg aaaataatgc agattcagaa      180
ctagttgcca aattagaact cgattaggcc aaggatccga gcctggcgct atcacttcgg      240
gacttaagct acggtagagc agtcggtcct gaagcatagc tcccgtagga cgtaggaaac      300
tagtccggca cggaggacat actctcgagt ctcggaacgt ctatttagaa tataaacgca      360
ttaacctcag aaggcgccga cgcggttact ctctagggaa ctatttcatt ccttccggag      420
ctcccctatt tttccaacac atataccggc aaagggaaaat cttntgtcct cgggtctaaag      480
agagggaaaa aaaacgatat ctaggttcgg gtttatccat ttaaaaanat ngacgcgact      540
actccctttc aaaggagatt tccccctagg nagagttcaa cngaag                          586
```

<210> 644
 <211> 646
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(646)
 <223> n = A,T,C or G

```
<400> 644
ctttgtggcg gtggttgtct catttgggtg gcatttttgg gtcgtaggaa cctggtatng      60
agggtatatt gacttgtttc tcaaattccca tggatatggtg ggtggcgtgc ggggtggcgg      120
tcggttcggc ggggggtggg gtcgtcctcc aaaggagttg ctagagggtt tttagtggtt      180
ttagggcggg aaggggttag agcggagaga cgtcgtcgtg gaagcttctg gcggagcgcg      240
agaaggtagt tagcgccggt tcggaagatt ctcagaattc gagaagaggt agtggggcgc      300
ggagagagag tttctaagtc taaacgtaga ggtcgtccta gtcgggcccg gagtagcttt      360
taagctagag gtcgaggtcc tcgtttaggc tccgggctct tcgggcagta tcctctttct      420
cgaggaacgg agcgaccgac gtcgtagccg gacccgtcta tccgtacgtt tagagatacg      480
ctcacctcca cgggcgtata tgcccgtata cgtataaacg cgtaatatac tcgcgcgtaa      540
aacacgtata cactatatac acgcatcgta cggaccgtat agcgttatac gcgcgcgtat      600
attaatttac acttatatac gcgttaacac gatatatcac acnccg                          646
```

<210> 645
 <211> 654
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(654)
 <223> n = A,T,C or G

```

<400> 645
nccntcggct tgggtttttt tctgaccccc ccccccccc cccccggctg acaacgtgcc      60
caccgttgcc atcccagcat agctggttcg ttctgtttta ttcttagtag tttagttcgc      120
ctatagtccc tcgtctatcg tctatcattt aaggaggcgg ggctcgctct ttagggcggg      180
tatcttaggt attcttctcg ttctggctgc cgtctcggag tctggtcctt ttgctttcct      240
ttcttggtcg aacttcgtgt ttgatcgcgt tgtttctttg gggtcgtcat acctaagggc      300
cacttcgcca acaaacaagt ttgtgtagtc gtttctatta gggttcgtcg gccggcgctc      360
ttactggttg gcgattttta acgcgttttg ttttaatttg cttctcccc tagggctcgc      420
tcggctcttct ctctgttcgc tgcctcgtc cggccttttg tgcggggata gctccggcta      480
ttancgtgcc gtgtccgtgt ggnttttgc caatgtgaag gcctaggggt gcgggcttct      540
ttggccatgg nttccccctc tgtgancctt aggggtaacg antcgttaatt naaggtcggg      600
ggttggnata cgttntangg gangcctgng tccgntattc cttgttttgg cctn      654

```

<210> 646

<211> 645

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(645)

<223> n = A,T,C or G

```

<400> 646
tccttcggct tgggtttttt tctgagcccc ccccccccc cccccacgcc aagtacacag      60
acccaccaaa aacaacgtca acacaaactt cgggtatacgg accttaagag agaccccgta      120
gtagacccta ccacagccat ccaatagtca aacaacaagg gcgcacccaa tccatccata      180
gagctatcaa acaacggagg ggaaaggaaa gagcagggtc aacttagcag agatcgaagt      240
cggcactaat tcctttcaag tactcgctcg gcttgtagtt cggggtaaaag tccgctctca      300
aagggccaac gaggttttaa agcgaccccc gtatcgagtc ttcttcgtat tcattaaggc      360
gttaaaggta cgagacctag aagagagtag aattagccca ccaaactgcc taaaccggca      420
aaaacgacca aaagtcaaag acccttacia atatcacctt aaaacgccaa ccccaaaaac      480
gcgatcagta acgcacgtac ctttcccacg cttttctttt tttcactctc caaaacaaac      540
cgaatatatt agcgcaaaaa atatccgagg gagaattaga agctattacc cgaaaaaaa      600
ncgganangg antaaatngt ggggaatana cgtttggttt ttctg      645

```

<210> 647

<211> 753

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(753)

<223> n = A,T,C or G

```

<400> 647
accttacctg gtaccggggc cccctcgag ttttttttt tccaaataca actcagattg      60
tatacgaaaa gctgataata cattgacttt tgctgtttta atcccttgag cttttgataa      120
tgattttttt tgtgttaaca attgtagtat ataaaatcgg attcaccatc cttctgatgc      180
catattgatt agtttgattt tatggtgatg ggatcattgt gtgttaactg tattaagaag      240
aaatggattt gattgacttt gcatccattt ttatctgtgt tactttcatg ttttatataa      300
aagcatttct ggaccagaat aagttaagtg gtataatttg ctttttacac gtttatataa      360
ttgaagttag caatgtggca aaatctctaa tggaaataaa atgcttcaga atgatgacat      420

```

```

aaatctgagc tatttcttgc ctggagaaca agtgttattc ataataatth aatagcttct 480
gaggtgtttt yttcatgtga tgaaggctta tccacctgtg atcaattcat gggctctgct 540
ttgtttaatg tagtcagggt gttaatacna gacttaagag tcatcctact gtgataagtg 600
gtgagtgaag attacatgtc ttangaaaat tatactggga atatctctga cattaatggg 660
tttaaagtgt ttaaggctag gggatgatgc aatgganaan atncttccaa angtttctgg 720
ttgtttatat ttgnngaagn catnaagana ccg 753

```

```

<210> 648
<211> 383
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G

```

```

<400> 648
gatatcccg ggaatgagg aggccttng gcttaactgt ttaccgcgta gggcaaagcc 60
ttgncaaatt cccggccagc ggagcggcga ggggtggggac tcacgggaag ttaaacagcc 120
tcgtcggcgt cctcgaggct ccaaaaaccag gctctaggcg gggacgactg cagccgttat 180
ggaggccacc gcggctacgg ccgcggctga ggccctccca ggtggagcgg tggcctggag 240
gggaatcttg atcctggggc agccacctgt caagaggagg cggagcgtca tgcctctgga 300
agactggatg aatattctcc aggagcctga cgaaggcgaa gaagtctttg cagaggaaat 360
tgaatgctgt ctgatgctac aat 383

```

```

<210> 649
<211> 349
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(349)
<223> n = A,T,C or G

```

```

<400> 649
cgattgtnta cnagtcttag agtaagctta agntcgntac cgagctcgga tccactagtc 60
cagtgtggtg ggaattccat tgtgttgggt cactagtaaa tggatttagc tagacanagg 120
anatttaccc tattccattt agcacagtga gganaggcta nacagctagg atgcaataaa 180
aaaaatttta atgagaaatg tgtgtggtag attaatctca ttaatctcaa gttatagatt 240
aaaaatttta agtaccncat aaatgccatt tgcctttgct aangntacat ttttatgaan 300
aangacntg catacnaat ganatactgg actttnggna ottgangga 349

```

```

<210> 650
<211> 306
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(306)
<223> n = A,T,C or G

```

```

<400> 650
cattgtgttg ggagcatcct tccatcagct cccatgagaa attctctgtt gggtttaagc      60
aatcccaaaa tatatcatat tgacatgaat atatcatctc ctcaatgtcc agcattagca      120
gacaagatga gtgctgaaga tgatataact cctacctctt atgtaggcta gaggtaaagt      180
ctggctctgc tgactgtggg gacataccga aaaggaatgt gggttaatat cagangacct      240
ccctgcagat ccganantca gggnctggac tttctgggan aggaagcnaa aagttatntc      300
tgaacc                                         306

```

```

<210> 651
<211> 769
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

```

```

<400> 651
cattgtgttg ggcaggggtca tttctaaggc atgggctgga agcttttatt taaaacttta      60
catgtcttag aagcactctg gttgttgcta ggcagacaat tttacatctc ttgctatacc      120
agttgcatga agttcatcat gcatattggc tgtggaaaac cttaacagca tcatgtcata      180
aggtttcagt aagggtttaa tgaaatcatg tattaagcac ttagtatagt gcaccttaaa      240
tgttagcttc aaaacaatga caacctaaact aatgttgaaa gaagcttgtg tttgtaaatt      300
atgtcttatt gaaagatgtc atcaaatcct gttattttota atcccttaaa gtctctcaat      360
gtattttctt ttgccatata caatgacagg accttagttt aagccagtgg ttctctcaac      420
ttctaatacca gagataacct ggtgtcccca agaccttttc agagcatcct tgatgtcaaa      480
accattttta taataatatt aaaatattat ttgtcatttg tactcttatt ctctcccaa      540
tattcagcga gttttccaga agctatataa catgtggtaa catcttatca ctctgacgat      600
taatagaata tgnngntttg gattcttgng tttaaaattt tctcactttg gggtttcta      660
atggnnacga ttaatagata tggntcccat gaccagangg ctttaaagca ntcaataatt      720
tttaagagac taagnactat cctttaaaga tngngaactc catcttaat                    769

```

```

<210> 652
<211> 267
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

```

```

<400> 652
nnangccctt taaccattgn ggcctccacg cnnatggcggc cgctctacaa ctagnnggatc      60
cgcnaactcta gnanaangat tggctcttnt gggntgggcc ggnccgggctg gggcgtaag      120
cggggctggg cgcgcgccgn ggttgnacna ggcgccgccg ccncacacn cccggagcac      180
cctcnttgcn gcentncccc gctcaccccg cgcgcgccgn tccgcttttt ccncacccan      240
agcncntttt atctntgtct cctccgg                                         267

```

```

<210> 653
<211> 501
<212> DNA
<213> Homo sapien

```

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 653
 cccnttnacc cattgctgga ctccaccgcg gtggcgggccg ctctanaact agtgggatcc 60
 ttncnatgag atgngcgang gaggacnnat ttgctatnct ggatggggct gantentnta 120
 gctnctctag cancagatgg gttatcgagg aagatgactc caangggcta nantcctatg 180
 cncatcctaa aanncanctg ctgtnttcag agtacgcgac acatcatcnc tnatgcattg 240
 ntgancaaga cgggcangtg cttatcctca gcgangatgc ccttaaccan gagctcgaat 300
 ggacntatca ccntanaggt acanntnccg caccacacac cngcttgcn cctgacgctg 360
 gactggatcn cttaggccac caatnccccg tttncacat ncctgggacn ctananatac 420
 tcganggggg gcccggtanc caattcgccc taatactgag ccttgntacg nacgctnact 480
 ngngtccta ttanaacggt g 501

<210> 654
 <211> 710
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(710)
 <223> n = A,T,C or G

<400> 654
 gcgnctttan cncatgctgg gctccaacgcg gtggcgggccg ctctacacta gtggatccca 60
 aactgagtc caccacagna aaactcanca ccaggcagac ccacaactg cagaatccag 120
 gctgcaattc acagactaat cntctagacc cactcagta ccagatggtt ccacacagct 180
 caaggnttta ggtttgctg gtanactcaa tctctatctt tcaccactgc cagcctgact 240
 tcagagatcc tngctctgg acagtcctca gtggcaggca actctcagga gcctcaggnt 300
 tttggcacat ccagnacca gccagctgcc acaggccctg accttntanc aacactgccc 360
 atgtattcca gacttctanc ataccacagt gccatgctga ttgcatctat agangctcag 420
 gtgcncctca aanctgtgcc tgcctgcagna ngccccacgt ctctggcatg cccaatgcc 480
 atngtggna acanttgact tctgggcatg ntgggaattcc ctaccactga ncctgaccat 540
 agngggganc ccattttttt cgaggggggg gcccgcccc caattccncc ntatagnag 600
 ncgtanttac gcgcnnctta ctnggccngt ngtttaacaa cgtcnntgan ctggggaaaa 660
 cccctggngn cnacccaaata taaacngcnt tgcannacat ccccttttcg 710

<210> 655
 <211> 202
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(202)
 <223> n = A,T,C or G

<400> 655
 ccccttttnc ctttcanccc ccccgttttg gcngccgcn acacctactn catccaccca 60
 cantcgacca cccgagcttt ttccgatcc cancatcnat gcngattttt tctntgcntg 120

ctgngcctgc acctttgnta ggtcaagcct ggcccatctt cgacaacttc ctcatcacca 180
acgatgaggc atactctgac ga 202

<210> 656
<211> 308
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(308)
<223> n = A,T,C or G

<400> 656
gctgntgaaa gaccacaccg aaaaactctn ctttccgact tccacatgat gatcngcatg 60
tggtggtagag agacttatca tgacgacatc gcttccnacc atcgcanccn ctgcccgaagc 120
ccattcatgg aggctgggn anttctgtga ntgaentnga cncctanacnc tnccactgtn 180
tgctatccag acttgnttng aatatnttat tggcnaaana canttnccgga atgctgtgnt 240
tgnnccattga angatctgat cactatgaga gggtagaggac nncctgctng ctggcantnt 300
ntaaccn 308

<210> 657
<211> 696
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(696)
<223> n = A,T,C or G

<400> 657
accntttcca caatnctggn ctccccgcgg tggcgggcgc gtcgaccagc aacctcagct 60
gtgggtcttg ttacagtaat gagttactgt aaggaaaagtg tgacatttcg agcaatttga 120
tttgtttaaa aactagagca gtttcagggt tttccttgta aatctgtctt atgtgtcttc 180
aatgttcttt cttgaggagt agagaaagga attgttagga atgatgcata aacctatggc 240
tattttatct cgctgccacc cataatcaga gcagattctt gggactatga ccctcatgga 300
gacatgacaa ttgtgtgtgt ggtgggtggg agaaaagagc tgggaatttt tagggcttag 360
agggtccaat caggactatt ttatggagct ctgctcacca actttaagtg agcaccaggg 420
gtgngaaagc gaatcttggg ntcaaaaana caatggnaag gggtaagttg gtatnctgaa 480
ctggccactt cggactctta tttaactggg tattctcant taaggaggcn ngggtgggtct 540
tggcttgtna aggaaagcct gtgcaatgga atgactttaa aaccccccat taaaaaaaaa 600
angntataaa tcttgggtct taanaangaa gcctgggttc tnttanccca ttttnccccc 660
gggaaggnaa atnttcttag gnaanggaag ggaagg 696

<210> 658
<211> 698
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(698)
<223> n = A,T,C or G

```

<400> 658
ctggactccc cgcgggtggcg gccgctctag aactagtgga tccgtgttgg ctcaattctc    60
aaggetgttg ctgtgcggcc tgttccccac acgtgctgct cagctcaggc aagcaccgag    120
cttgtgttgt ttcatgctca gogtggaggc cctcctcca ggtcgtgct ctgtgggggt    180
cccatacact caggctccta ggaggagtcc atttagaaag ccagggtttt tctcagagtc    240
ttagttcctt gtgctgtcat ccatttcaca cgacttgggc cctgctcggg gcaacacagc    300
aagagaaaag acagggaaaa taagagaggg accttgacaca cacacgctct ggaccacaga    360
gccctgtgcc cagctcctct gtcaatacag gtggaatctc gtgcaggatc gcagggggtct    420
gtgatgccac caaagagcag gccgggacag ggtaggaga gaaaggagag ggaagtgggg    480
gtttctccta cgcactctta tttgcagagg gaaaggcggg tttgtattgg ggttgtcggg    540
ctttgcaccc acngcacagt tgtgagacac ccccatcctn agatcaaagc cccacatata    600
gcttggggaa aaacaaaacn aaacaaaaca aaaacagtaa acctccatgc canttgttgg    660
gnaagttttn aatttncttc cccnaccan cttgcttc    698

```

<210> 659

<211> 750

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(750)

<223> n = A,T,C or G

```

<400> 659
ncaanctggn ctccaccgcg gtggcgggcg ctctagacta gtggatcctc ctcatgggcc    60
tgatatactc tgaacatatg atgaacattg cttatgaaaa attatttgta ngaaaattgt    120
gaggcctaag aatgntatct tcttttagtg atggtctttg tttgcttctg taaggnaactt    180
gtgggcactc gtaagcttgg atctctttaa tctaatacca gntttgagat tttcttggcc    240
ccatagatga attaaaactg gcgtacttct tgtttacaag anggataagt ctccatagggt    300
aagtcttttg gggtcccaag tcaaaaagat gagggattta ccagtctctc aaccttggtta    360
gccccagact ccaaactttg ccttctagtc ccaagaggct atcaaaaagc aaaggccatc    420
ttccacacttc ttttccanaa cagcacacat tccagacagt acttgaaaagc aggaacctcc    480
ttatccctta aaaacctctt ggaancatct tccctctctt gcttctacta tgcttggccc    540
acctancatt cncntttttc tggaaaccgg aaaaancttn tgacttnngt tggctacatt    600
cagcttggcc ccctacaatn tggtttccat ctgccctaan gaaattttta agggcacttt    660
tttntggcc cctgactttc ntttttagg gctttcccc angctttgoc cctttggtta    720
aaggggttat tttccttccc cttttggaag    750

```

<210> 660

<211> 849

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(849)

<223> n = A,T,C or G

<400> 660

```

tcggatccac tagtccagtg tgggtggaatt cgcggccccg gtcgacgggc agtagtggtta    60
tgcntntcta aatgttataa ttatttcaga attactctgc cagaaagtta tgatcatata    120
tagaagagtt tgtagctaac tttgaaagta gtggaaagtg gttttcatgt attgtttggg    180

```



```

ttaaatttaaat tttgattata tttgggttttt agttcaggta attttttttgt tgaaaacttc 240
aaatgacaat ttcttcatgg ttactaaaga tcactcatgt ggagtagttt cagattttttt 300
tctgaataca tgtattactt ttagagatgt aaagatgtga aattactaag agagaaaccc 360
atgtgatattg tttagtggat caaaagtcgg tagctccttt gatcctaagt gccactgata 420
gttaaataga tactgaagct atgggcaggc tggattgata agaaaaaagg agacagagaa 480
atgggaaatt gggaaagaac tgtgcaaata ggaaaaggag agagcaacag aacagaatta 540
gtaccacagt gccgaagtgc cacctcaggt acttccatct cccatctcct gaagaattca 600
gtaacagttt gcaaatggtc aacacaatca tttagtgatc ctggttgata ttttcaatac 660
tttctgggga tttcttggct ggnttcaaaa gatgatgctg atagttttat tgcccctgaa 720
ggtattctga agnttancat aatttattgg tcagtaaaat atttgaataa aagngganga 780
aggaaaatct ggcntcttat tttgggatnt cngcnggggg aangaggata taattnaccc 840
cgccttgg 849

```

```

<210> 661
<211> 653
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(653)
<223> n = A,T,C or G

```

```

<400> 661
aacttaagct tgggtaccgag ctccggatccc tagtccagtg tgggtggaatt cgcggccgcg 60
tcgacctcca ttcgtttctt gtcctttttt ttcatTTTTT ctcatgttct attcacttta 120
ggttttctaag ataaatatta taaaataatt tttacttata aattattcac tgataccctg 180
tctttaacat gtgaaatgaa ttcaaaaagga atcttaatga gaaataatat actcatgatg 240
tttaatagat ttgatttcga aataataagc cctctgaagt cctaagttaa aaataaagca 300
acttgtttga taatttttca tcaagaatgt atctgagtct ctgagtaatt attagtagga 360
atattccatt atcacaatta cacagtataa gctatttagt ctaactttac caaaaaaggg 420
agctacttca acactgtgtg agacttttaa tgggtttgca ttgggtatgc actattagca 480
agataaccta ttttacagca gtgttnttta acctttccca tttatttgaa aggcagctaa 540
gatatagtag ttaatntaan gggctgatgc atttatatta catgtagana atgggagata 600
cnaaagggag nggggggana tnttttgnat tcnnaagctt cnttgncaat taa 653

```

```

<210> 662
<211> 646
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(646)
<223> n = A,T,C or G

```

```

<400> 662
aaacttaagc ttggtaccgc agctcggatc cctagtcacg tgtggtggaa ttgcgggccg 60
cgtogacca gggacaggca gccagnctg gggtcaccag ggtccctct tgggccctcc 120
aanagcaaca gtactggcaa cagctgggat ttgctgagca cagactctgc agcaggctcg 180
gttgagctct ctgtgcctgt tccttcatac catcctcacg cccatccatg agatgggtcc 240
agctgttttc agatgagaaa atggcacagg aagctggtaa gtgacagtca gaaatgaatg 300
ctggcagctt antccttgga cccaccgcag tgcaggacct tgctcaacag ggatcaccct 360
tgtccgccac ctgttcatga ggccaccag ggtttgtgtg gtcatttgtc tcctttcatc 420

```

tgcttgccctt	caaccagctg	ggtcattag	gctggggaac	ccagacccca	cacagtcctt	480
ctcccagang	ccagacacan	ncnccgccac	agnaaggact	tcagtccccg	aancaaagt	540
ncctgggcgt	anaaaotgna	gggnccccaa	tccttggtgg	ggtactgctt	tgcactggng	600
gaattcaccc	ctcattgnna	acctttccct	ntnncaccc	ctaaac		646

<210> 663
 <211> 650
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(650)
 <223> n = A,T,C or G

<400> 663						
aacttaagct	tggtaccoga	gctcggatcc	ctagtccagt	gtggtggaat	tcgcggccgc	60
gtcgacgtcg	acgcggcgng	cogtttogac	gcagttgata	catattatta	tatactacat	120
nggttttcta	gaattaaaaa	attaatgtgt	agtgccagcc	ctagatgtaa	gttacatata	180
tcaactctat	ccaattttgt	cagccataaa	acttaccttt	ttcacatact	tctaactcta	240
acaatgtgag	aaatgtagat	cattgcaatt	ataccacaa	ggcagatggc	tacatgcaga	300
atggatagca	gaatctagct	acttacgcta	gccacatggt	agacgttttt	tcctttgttt	360
ttgcaaaatt	gcaatataag	ttgcataatc	ttagagttaa	aagatgtaa	gaaccatag	420
aagccagtga	tgaaggacat	ttatatattc	acctttacaa	angaccttaa	aattgcctat	480
gtggagcaga	aactggagga	gggcnaaacc	atcngtaaaa	aaaattttgn	tnctatttgg	540
atgtgggcac	cattattacc	tccccaggtn	cctttttgnt	ttaacctttc	ttttaaaaaa	600
aataattcnt	aatttttggg	caaaaaaaaa	caaggttttt	atttaaattt		650

<210> 664
 <211> 678
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(678)
 <223> n = A,T,C or G

<400> 664						
taaaaatcta	gactacacta	ggaaattatt	ttantatcag	aagaatatca	ggggtgtagt	60
actcatcana	gctaaatgag	agcgctttaa	aaatgttagt	ttgtcttccg	ccattttctac	120
agaaagctgc	aatttcaggt	tttcaaccta	atagggtgata	tttaagaaaa	aaaaaaagca	180
atcgcaaata	gccccactgc	ttttacaaat	cattttttct	cttctaggta	tagcctgtca	240
ggtggcctaa	tgtaattttt	gacatctcta	ggaattttta	tagaaccaga	aatgggtgcc	300
agagatatgc	ctgcactaat	cttaagtggg	gatttatgta	tttctcaagc	aagtgattaa	360
agcaaaacta	ggcacgattg	aaatcaanat	cttttaggca	agaaagtcac	gatgagtttt	420
anaattatct	taggactctg	tggctttctc	ttcatagaaa	tagaaaaaaa	aaattgtata	480
aaaaccacaa	aaggtcctga	atagcccaaa	gcaacactga	acaaaangaa	caaagcagga	540
agcaacacac	taccggaatt	caattatact	accaaggtgt	antaaccaa	acagcattct	600
attgggcata	aaatagacca	aagaccagtg	ggaaacagaa	taaagaancc	caaaataaat	660
cctatatatta	cngccccc					678

<210> 665
 <211> 694

<212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(694)
 <223> n = A,T,C or G

<400> 665
 cttttcfaat cattttttnct cttctaggta tancctgtca ggtggcctaa tgtaattttt 60
 gacatctcta ngaatttttaa tagaaccaga aatgggtgcc agagatatgc ctgcactaat 120
 ctttaagtggg gattttatgta tttctcaagc aagtgattaa agcaaaaacta ggcacgattg 180
 aaatcaagat ctttttaggca anaaagtcac gatgagtttt agaattattt taggactctg 240
 tggctttctc ttcatagaata tagaaaaaaa aattgtataa aaccacaaaa ggtcctgaat 300
 agccaaagca acactganca aaaagaacan agcaggggaag caacacacta ccngaattca 360
 aattatacta ccagggtgta gtaaccacaaa cagcatttcta ttggcataaa atagacacca 420
 agaccaatgg ancagaataa agaacccccac aaataaatcc atatatntac cgccanctga 480
 ttatcaataa cnaacaccaa gaacatatnt taagggacnt nctattcaat aantagtgtc 540
 ggnaaaaact gggaaatcca tatgcagaaa naatgaaact agacccttat ccctcaccat 600
 acgcaaannt caacttcgga atgggattac aaaacttaag acattccaac ccaagaaact 660
 atnaaancta ctattaagaa aacagatcnc nccc 694

<210> 666
 <211> 705
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(705)
 <223> n = A,T,C or G

<400> 666
 tttaaaaatt tagatacact angaaaatta ttttagtatac agaagaatat caggggggtgt 60
 agtactcatc agagctaaat gagagcgctt taaaaatgtt agtttgtctt ccgccatttc 120
 tacagaaagc tgcaattttca ggttttcaac ctaatagggtg atattttaaga aaaaaaaaaa 180
 gcaatcgcaa atagccccac tgcttttaca aatcattttt tctcttctag gtatagcctg 240
 tcaggtggcc taatgtaatt tttgacatct ctaggaattt taatagaacc agaaatgggt 300
 gccagagata tgcctgcact aatcttaagt ggggatttat gtattttctca agcaagtgat 360
 taaagcaaaa ctaggcacga ttgaaatcaa gatcttttag gcaagaaagt catgatgagt 420
 tttanaatta ttttaggact ctgtggcttt ctcttcatag aaatagaaaa aaaaattgta 480
 taaaaccaca aaaggtcctg aatagcccaa gcaacactga acaaaaagaa caaagcagga 540
 agcaacacac taccagaatt caaattatac taccaagggtg tagtaaccaa aacagcattc 600
 tattgggcnt aaaatagacc naagaccaat ggaacagaat aaagaacca aaataaatcc 660
 atatttttac agccagctna ttatcaataa aaacnccaag aacnt 705

<210> 667
 <211> 817
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(817)

<223> n = A,T,C or G

<400> 667

nnangacttt	tgtggtnnta	tacaattntt	ttttctat	ctatgaagag	aaagccacag	60
agtcctaaaa	taattctaaa	actcatcatg	actttcttgc	ctaaaagatc	ttgatttcaa	120
tcgtgcctag	ttttgcttta	atcacttgct	tgagaaatac	ataaatcccc	acttaagatt	180
agtgacggca	tatctctggc	acccatttct	ggttctatta	aaattcctag	agatgtcaaa	240
aattacatta	ggccacctga	caggctatac	ctagaagaga	aaaaatgatt	tgtaaaagca	300
gtggggctat	ttgcgattgc	tttttttttt	tcttaaatat	cacctattag	gttgaaaacc	360
tgaaattgca	gctttctgta	gaaatggcgg	aagacaaaact	aacattttta	aagcgctctc	420
atntagctct	gatgagtact	acacccctga	tattcttctg	atactaaaat	aatttttccta	480
gtgtagtcta	aactttttta	aaaagacatg	taatccgcgg	agtttgtaac	tcaaaacgag	540
tgcacttagg	aggtagcgca	agccgtttct	ggattaaatt	cccagctagc	ttgcttgctt	600
agcaggggcg	gnaaanaaag	acatctgcag	cctaggggaag	aaaacctttc	gcattgttct	660
tacgtgttta	cgttatttta	tttccctanaa	caaggcngaa	ttgggactcg	aatggttcag	720
ttgggggtggg	ggatcccctg	gtncataaaa	ngtcanaaag	anggtacagg	cggaaaccca	780
agggtcgtcc	tgcatttana	ctcggaattt	tggtgcgc			817

<210> 668

<211> 826

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(826)

<223> n = A,T,C or G

<400> 668

cggggggnnt	tacgtctctc	tggacgcttt	tattgtacca	gggcgatccc	agcccaactg	60
taaccattcga	gtccctactc	ctgccttgct	ctaggggaaat	aaaataacgt	aaacacgtaa	120
gaacaatgcg	aaagcgtttt	cttccctagg	ctgcagattg	tcttcttcac	cgcccctgct	180
tagctagcta	gctagctggg	aatttaatcc	agaaacggct	tgcgatacct	cctagatgca	240
ctcgttttga	gttacaaaact	ccgcggatta	catgtctttt	taaaaaagtt	tagactacac	300
tagggaaaaat	tatttttagta	tcagaagaat	atcagggggg	gtagtactca	tcagagctna	360
atgagagcgc	tttaaaaaatg	ttagtttgtc	ttccgccatt	tctacagaaa	gctgcaattt	420
caggttttca	ncctaataagg	tgatatntaa	gaaaaaaaaa	acaatcgcan	atagcccact	480
gctttttacaa	atcattttttc	tcttctagg	atagcctgtc	aggtggccta	atgtattttt	540
gacatctcta	ggaattttta	tagaccagaa	atgggtgcca	gagatatgcc	tgcactaatc	600
ttaagtgggg	atttatgtat	ttctcaanca	agtgattaaa	gcaaaactag	gcacgaatga	660
aatcaagatc	tttaggccag	aaatcatgaa	nanttttana	attattttan	gaatctgtgg	720
cttctcttct	taaaatngaa	aaaaaaattg	tttaaaccaca	naaggtctga	atacccaagc	780
ncctgaacn	anagaacaan	gccggagcac	cccctcccaa	atcccc		826

<210> 669

<211> 547

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(547)

<223> n = A,T,C or G

```

<400> 669
cattgtgttg gggaaaaaat gatttgtata agcagtgggg ctatttgca ttgctttttt 60
tttttcttaa atatcaccta ttaggttgaa aacctgaaat tgcagctttc tgtagaaatg 120
gcggaagaca aactaacatt tttaaagcgc tctcatttag ctctgatgag tactacaccc 180
ctnatattct tctgatacta aaataatttt cctagtgtag tctaaacttt tttaaaaaga 240
catgtaatcc ggggagttag taactcaaaa cgagtgcac tnggaagtat cgcagccgtt 300
nctggatnaa attcccagct tgctngcttg ctnagccggg gggcggtnaa aaaaacatct 360
gcagccnngg ggnaaaaacc ttgcgattgt tcttacgtgt ttacgttatt ttatttccct 420
nnagcaaggc nggganttgg ggactcgaaa tggtagctt gggctgggga tcgcccttgt 480
tacataaaaag ncgtccagaa gagggacggt tacaggcngg ganctccaaa ggtcagtccc 540
tgccatt 547

```

```

<210> 670
<211> 232
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(232)
<223> n = A,T,C or G

```

```

<400> 670
cgaactatit agactaccta ggaaaattat tttagtatca gaagaatac aggggtgtag 60
tactcatcag agctaaatga gagcgcttta aaaatgttag tttgtcttcc gccatttcta 120
cagaaagctg caatttcagg ttttcaacct aataggtgat atttaanaaa aaaaaaaagc 180
aatcgcaaat agccccactg cttttacaaa tcattttttc cccaacacaa tg 232

```

```

<210> 671
<211> 214
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(214)
<223> n = A,T,C or G

```

```

<400> 671
ctcccccttc ntccttcgct actnncatt ttcnnaaatt tntttcgcnt atgnggaaaa 60
acaccacat tnttcanctc gcacagaaca ngnnggggtg tgtaaaatga agggcttccn 120
cnctttctct tattnaanaa cactnaaana gggangggct aaaacccgcg ngatntctac 180
nctatcgcg gcgcttttgg ngttggctag aaga 214

```

```

<210> 672
<211> 328
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G

```

```

<400> 672
ngancagcgg ngtttaaacg ggctctaga ctcgaggaga cncctgttgg atggtggatc      60
acanntcgnt actactatac aggacagagt atcggganct cttggntgtt ggngcctgcc      120
aaccactgct nctgttaact gcgtatctga agggactcgg actggcttca gaagaactac      180
cggtcgaat gnaccatgga tgattcncnc tagttgaaaa aaaactcagg cacatgtatt      240
gccactgatg actagcgcca gactnctctc ggctctntaa cgagcccaca tgnctgtgtg      300
ncncccggtc tgnctccaga agaggttc      328

```

```

<210> 673
<211> 223
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(223)
<223> n = A,T,C or G

```

```

<400> 673
gggggcaaag ctggctagcg tttaaactta agcttggtac cgagctcgga tcccnagac      60
attgtgcatg aaaatgcaaa ttgagtgtgg tctatantgc catctcacc tnctgncngc      120
tcaaaacaac ngctttctgc tgcaatgggt agggctcctn acncacggtc gcnnacggag      180
gccncttat cctctcgggt nnggatccct ngaagcatnt tct      223

```

```

<210> 674
<211> 256
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(256)
<223> n = A,T,C or G

```

```

<400> 674
gnggggtcnt ngatgagcgc gcgtaatacn atcactntcn ggcgngntgg gtaccggggc      60
ccccctcnaa gcggccgccc ttttttntt ttttttcn acatgataa ntcttnttc      120
taaacagacc acaccactan agttcctttn ctttngtacg gaattgagtt aaagtagagn      180
atacaatgca gggcttcnnc tctatttcac attccaggnt gggtcngnat ggatcgggcc      240
tgctctccg atgggt      256

```

```

<210> 675
<211> 439
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(439)
<223> n = A,T,C or G

```

```

<400> 675
nnactagtc agtgtggtgg aattccattg tggtgggctt gtatgggttt ttttgtctag      60
ttntttggga aatgttngtg ttactatntt ttggatatna tatatgatat gtatggccct      120

```


<220>
 <221> misc_feature
 <222> (1)...(670)
 <223> n = A,T,C or G

<400> 678
 actagtccag tgtggtggaa ttccattgtg ttgggagcag tttaaaaaaa aaaaagacna 60
 aatatacnac tcttgatnaa acataaaggt acagtgggtct atgaggaana gaaaagggtac 120
 ctnaggatgc aaaantacct accacatggg aaccgttngt ccacactcat tccnnanaaa 180
 accgagtcct ctcanttnca cacgtgtacg tttcagttgg gaagtgcctg ccattactcc 240
 naagcctaga accttcacgt cctgaagggt ctggaagggt tttcagattg cttaaganac 300
 gcngcccttc catattcntc tccactaccc nggggaacgg aacaaatgga gctgcgacng 360
 ggaagcgtcc cttcccntcc gaacgctttc tttcaaacct gcctgccttc cnggcgaatg 420
 gaccggaagg ttttctnctc tcctttcanc ccaattact tcctgngttg aaaattggcc 480
 tgttggtttg caaatgcngg aatttggtta ctttctcat gtctgtgtt gnnncnaaccg 540
 gctccttgtg tgccctccct tngaaagggt ttcacaggc cccgcccttt ctcttntaan 600
 ngtcctaate cggncnggac cactcgggga aaattttttc ttttcgaaaa gccgccccnt 660
 ccgtccggct 670

<210> 679
 <211> 449
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(449)
 <223> n = A,T,C or G

<400> 679
 actagtccag tgtggtggaa ttccattgtg ttgggagtag gtctactaca ncctacttcc 60
 cctatcatan aaganccttan caacnttcat gatccccccc tcntannoct tttcctcanc 120
 tgcntcctag tccgtgtttgt cctnttccta acantcntaa ganagatnac taatnctact 180
 atctctnacc tccggaanct acaanacgtc tggaactatt cngaccccat gcancncat 240
 nctccatcgt cctcccagcc cctncccttc ctttactnta ctnaacgaag gtcgacgatc 300
 cctcccntac ctcccnnncc attgggnccc aanggnactg gacctcacga ntacaccnac 360
 tacggggnga ctaagnctgn aactccttac atatntcccc gttaccccn gaacncagcg 420
 aacngcnaca ccttggaent caagaanta 449

<210> 680
 <211> 670
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(670)
 <223> n = A,T,C or G

<400> 680
 tttcngtgtg gtggaattcg cggccgcgtc gacgagaaga nggaggagga naaggagaag 60
 gagaagaagg agaanaagga ggagaaggag aagaaggaga agaaatcatc atcatcatca 120
 tccactgtct ngcaactatt taagtttgcn antcccttga aaacaggtag ttttgtttca 180
 atgtttggga ccaactnctga cnatgannag aanaccaata aatgcttgat naatgaaaaa 240


```

nccacttttt accgtttaga accctgaggc taagagaant gatgtgactc gacttagtta 300
ccacaaacta tgatcctagc atnaattggg gcatctcaac acctcaactc cctgtgcaag 360
aacagatttt caatgtotac tgatgatttt aaatggatta nttcctctct ttacttctta 420
agggcatgaa gntttatgaa acaaaactat ncagttccag acgcttaacc cacatagtgt 480
taatagtcac cttcaacaca cnactaaacc cccaaaaaan gntttttacg gngtttcgac 540
agttttcttt tctttttgac ttgnttaaca cccnngacaa ctttgttctn ttccntgaa 600
tcacancctt cnaanancca atggtncggg tttttctctn tcnnggccct tcccttnttn 660
aaaaccanat 670

```

```

<210> 681
<211> 494
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(494)
<223> n = A,T,C or G

```

```

<400> 681
tcatgggtgtc cacagtctga tgtgagcgca ttaaatttaa ggatctccgc ctttctcctt 60
aaaactcagg acttggcaat gancctagga agcgcccctc ccctcccan ccanatccaa 120
gccccggacc gctgcgctc cagctgcgcc tagtgaaacc gccgaattcg aattcacact 180
cggngggccg gcgaagggtg gcgcgccgc gggagcgccg gggcnagccc gagggactgc 240
aagccaanaa nggagggcat ggtggcgggg ggcgcgctct gatccaggaa ggagcggagg 300
cgccgatcac acactcttna gacgccctgc ccgcgccttg ccagcgcgca gnetgcagga 360
cgcgcgagc aggaactcgc tggagtttgc caagcccan gnetctggaa agtntgtagc 420
tccctttcgg ancgnctctt ctggccctt gggacgggtg tgtcattggg cgggggtctg 480
tataaggggg ggac 494

```

```

<210> 682
<211> 263
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G

```

```

<400> 682
tgatcattca agcgnctgnc gnataacgat tgctnagccc aacctttcat agggtcgttc 60
ctttgggaat nggatgtcta ttgaatggca gggatagggg cactcgcat tcgcctctgg 120
tacagttttg catatatatc ctcatcgca gcgagcgtag gggancgtta agtttgggga 180
aatgccnccg catgnccctn ccggagctta aacccccaac aatnccatt ttnaaaaaag 240
ntttnttant taaaaaaaaa aac 263

```

```

<210> 683
<211> 255
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature

```

<222> (1)...(255)

<223> n = A,T,C or G

<400> 683

cttgcceggc	atgcacagac	ntntttacgg	acacnctact	ccaagngagc	ctgnanctgt	60
ctacgggtcaa	ntcttaaggt	tngncantgc	cacanatggc	atagtcccg	gggcggtnan	120
tctggantgc	tctctgcact	tgaacntaaa	gcgnttttca	aganaggnet	aatngcctgc	180
ctcttgacaa	cnaacaancc	cacaccnacc	tangaccctn	tangcaagga	ctggattctg	240
naaatgcaat	acaca					255

<210> 684

<211> 922

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(922)

<223> n = A,T,C or G

<400> 684

acccttcatt	tcatgtgctt	ctattttcct	acatctttta	catgactaag	ggattaatga	60
aatcacctct	tcataatcat	gaccataatt	tcatccaaca	agtactcaag	tttgggtgta	120
gcactttatt	aatgcttacg	aattctctct	ctctccctct	ttctcttttc	cttagtcctt	180
gcacaataag	gattttttgaa	tgtataatat	catcttaggt	aagctttcat	atggtttttg	240
catatgaagc	ttatgactgt	cataagccat	accaagcctg	tggagtatgg	catgattttc	300
attacataat	ccaatgaaaa	tagacttatt	ttaaatccct	aactttgtag	ttttaatttg	360
tatttcacta	tcttgaaatt	aacagctagt	acttatccat	cacagcagtc	tcctactgac	420
atgaagcaag	ttgttgaatg	cagtaganca	tgaatgaaag	catttaaatgt	tanacaaaaa	480
tgggtgatac	ccaagcattc	tgaattattt	gcatcaagga	atgggacatg	tacattagtg	540
gcatcatttc	taccaatatg	tgacttgaat	tgttttttta	aaaaaaggan	aatgantttc	600
tcaatttgct	ttaaaaaatt	ttnaaaaagt	tcaatggcat	gctgctttgt	ctggacttaa	660
tttattaaca	attnttaanc	cttccttaag	gacanaattt	tggtgttcag	gatcnccttg	720
aagggtctta	tttttnatan	nattccaaac	ccaaaagggtg	gtttaaaatg	ggnggggttc	780
ccccncnaaa	atttggaaccg	gcttttttat	atttaaaaaa	nttnccnttt	gngtttgaaa	840
nctnaatacc	aattaagggg	gaattttacc	tnccagtggg	aaaaaaaaac	nctngccntt	900
naaaaaattc	ccnggagnca	at				922

<210> 685

<211> 531

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(531)

<223> n = A,T,C or G

<400> 685

tgaggctctg	taaaactggt	cctctgctag	gcatacttca	tattctctat	attaaactca	60
tctttaattg	gcatggaaga	ttcattgttc	caaactctcag	atgaagatcc	tatattggat	120
gcaattaagc	ctggcagcgc	cctcaaaaaga	cagtcttgct	actgctagcc	acagccagga	180
cacagtaaca	gttccttcta	gtgaccnag	accataanaa	atananatct	aaagaattct	240
gactccaaag	gcattagccc	attcctggta	ttgccaatta	tgatagaaaa	aattgccaag	300

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ctcctgggac atggaaatac actcagtaca tttgagaact ggagaactan tttccaaaat 360
agtatgaaga catganggtg attgtagata tntgagtttg gagaanttga gggaaatcng 420
attacacatg tttactacaa gagatgttna taagtaaaga aggcctgata tacaatctaa 480
cagacnantg agataaatct taantcacia ctgacntccc ttttggggcg g 531

```

```

<210> 686
<211> 336
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(336)
<223> n = A,T,C or G

```

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<400> 686
ggngncctna tgagcgcgcg taatacgatc atatagggcg aattgggtac cgggcccccc 60
tcaagaacac tacaagctat gtctctttct canagagccc tgaantttta acatattgaa 120
agctctnadc ttgccaaana actccactta acttcaaaac acaccctcca cacacatcat 180
gatcaactna gatcttactg aaccagaatc ctnaatggca tacttcagga acaggggtcc 240
anagaagcag ttctcaaant gcagctnaaa aagaaactga aaaccaatt catgcaanac 300
ctagggctta tttgagagca ttttccagtg cagatt 336

```

```

<210> 687
<211> 271
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(271)
<223> n = A,T,C or G

```

```

<400> 687
aatctgcact ggaaaatgct ctaaaaataag ccctaggtct tgcatgaatt gggttttcag 60
tttcttttta agctgcactt tgagaactgc ttctctggac ccctgttcct gaagtatgcc 120
atntagatt ctggttcagt aagatctcag ttaatcatga tgtgtgtgga ggggtgtgtt 180
tgaagttnag tggagtctct tggcaagatc agagctttca atatgttnaa acttcagggc 240
tctctgagaa gaggacatag cttgtagtgt t 271

```

```

<210> 688
<211> 740
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

```

```

<400> 688
tgatgaagcg cgcgtnttac nactcactat nggggcgaan tatgggtacc gggnccccct 60
cgaagcggcc gccctttttt tntttttttg tgagagttaa aataaaatat ttgagtttaa 120
tttaaagttt gagttaaatt aaaatatatg gcatatccca agttgggctt tgcanaaaga 180

```

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acactttctca ggaactgtta gttggtgtac caggaactca gaagggtcct gttattaaat 240
atatttgga aatgcatgga ttctctgaan atcnctctgc atgtgagcaa cacttacatc 300
ncaaaccaaa attggcattg catacatnaa ccaatatttc ccaaacattt ctgggttatgg 360
ccccccct ttgtgtanta cttattgctg ttttttgga ccttggggaa attacttaaa 420
atattcagct ggaaattaca ggcgttactt ttaaggganc aagaattaca gtgactccca 480
aaattgcaag tgttgattac tatttaagaa cccaagaatt tgaaagaaat ttgaaaagt 540
gaaaacngga aatnttaaat gacttctcaa attttgaaaa ctcnngnaaa catctccact 600
ttggtncct tcttttaaaa attggctaaa aattntttnt tatncccacc ccattggaan 660
tnccccccc ctggaacaat tggattcccc tatttcctaa aaaacggccn cccccccgg 720
ggngaacncc nacnttttgn 740

```

<210> 689

<211> 635

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(635)

<223> n = A,T,C or G

<400> 689

```

actagtccag tgtggtggaa ttccattgtg ttgggattac atatactttt agcaattttt 60
aaagaagtgt acaaagttga gatgtttcct gagctctcat atatctgana atgtcatttt 120
acatctccgt cttcacctct caaaacttct ttcaattctt tggctcttaa tagtaatcaa 180
cacttgcact ctggagtcac tgtaattctt gctcctttac agctacncct gttatttcca 240
gctgaatatt tttagttatt tcccaggggt ccaaaaaaca gcaataagta ctacacaaag 300
ggggtgggcc ataaccagaa atgtttggga aatactggct catgtatgca atgccaaatc 360
tggtttgcn ttgtantgtt gtcacatgc agagtgaatc ttcaaanaat ccatgcattt 420
tccaaatata ttttaataaca gggaaccttc tganttctct gntacaccaa ctaacagttc 480
ctgaaaaatg ttctttctgc aaaacccaac ttggggatat gccatatatt ttaattaaac 540
tcaaacttta aattaaactn caattatttt attttaact cctcaaaaaa aaaaaaaaaa 600
agggggggcc cttccaang gggnccggt tcccc 635

```

<210> 690

<211> 3923

<212> DNA

<213> Homo sapien

<400> 690

```

acagaagaaa tagcaagtgc cgagaagctg gcatcagaaa aacagagggg agatttgtgt 60
ggctgcagcc gagggagacc aggaagatct gcatggtggg aaggacctga tgatacagag 120
gaattacaac acatatactt agtgtttcaa tgaacaccaa gataaataag tgaagagcta 180
gtccgctgtg agtctcctca gtgacacagg gctggatcac catcgacggc actttctgag 240
tactcagtgc agcaaagaaa gactacagac atctcaatgg caggggtgag aaataagaaa 300
ggctgctgac ttaccatct gaggccacac atctgctgaa atggagataa ttaacatcac 360
tagaaacagc aagatgacaa tataatgtct aagtagtgac atgtttttgc acatttccag 420
cccctttaaa tatccacaca cacaggaagc acaaaaggaa gcacagagat ccctgggaga 480
aatgccgggc cgcatcttg ggtcatcgat gagcctcgcc ctgtgcctgg tcccgcttgt 540
gaggaagga cattagaaaa tgaattgatg tgttccttaa aggatgggca ggaaaacaga 600
tctgttgtg gatatttatt tgaacgggat tacagatttg aaatgaagtc acaagtgag 660
cattaccaat gagaggaaaa cagacgagaa aatcttgatg gcttcacaag acatgcaaca 720
aacaaaatgg aatactgtga tgacatgagg cagccaagct ggggaggaga taaccacggg 780
gcagagggtc aggattctgg ccctgctgcc taaactgtgc gttcataacc aaatcatttc 840

```

atattttctaa	ccctcaaaac	aaagctgttg	taatatctga	tctctacggg	tccttctggg	900
cccaacattc	tccatatatc	cagccacact	catttttaat	atttagttcc	cagatctgta	960
ctgtgacctt	tctacactgt	agaataacat	tactcatttt	gttcaaagac	ccttcgtgtt	1020
gctgccta	atgtagctga	ctgtttttcc	taaggagtgt	tctggcccag	gggatctgtg	1080
aacaggctgg	gaagcatctc	aagatctttc	cagggttata	cttactagca	cacagcatga	1140
tcattacgga	gtgaattatc	taatcaacat	catcctcagt	gtctttgccc	atactgaaat	1200
tcatttccca	cttttgtgcc	cattctcaag	acctcaaaat	gtcattccat	taatatcaca	1260
ggattaactt	ttttttttaa	cctggaagaa	ttcaatgtta	catgcagcta	tgggaattta	1320
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gatttttttt	ccagtataaa	gttaaaatgc	ttagccttgt	actgaggctg	tatacagcac	1440
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aaacaaaatc	taacttgtaa	ttccttgaac	atgtcaggac	atacattatt	ccttctgcct	1560
gagaagctct	tccttgtctc	ttaaatctag	aatgatgtaa	agttttgaat	aagttgacta	1620
tcttacttca	tgcaaagaag	ggacacatat	gagattcatc	atcacatgag	acagcaaata	1680
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gggaatgttt	atggggcaog	tttgaagcc	tgggatgtga	agcaaaggca	gggaacctca	1800
tagtatctta	tataatatac	ttcattttctc	tatctctatc	acaatatcca	acaagctttt	1860
cacagaattc	atgcagtgca	aatccccaaa	ggtaaccttt	atccatttca	tgggtgagtgc	1920
gctttagaat	tttggcaaat	catactggtc	acttatctca	actttgagat	gtgtttgtcc	1980
ttgtagttaa	ttgaaagaaa	tagggcactc	ttgtgagcca	ctttagggtt	cactcctggc	2040
aataaagaat	ttacaaagag	ctactcagga	ccagttgtta	agagctctgt	gtgtgtgtgt	2100
gtgtgtgtgt	gagtgtacat	gccaaagtgt	gcctctctct	cttgacctat	tatttcagac	2160
ttaaaacaag	catgttttca	aatggcacta	tgagctgcc	atgatgtatc	accaccatat	2220
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ttcacaaaag	cagctggaaa	tggacaacca	caatatgcat	aatctaaact	cctaccatca	2340
gctacacact	gcttgacata	tattgtttaga	agcacctcgc	atttgtgggt	tctcttaagc	2400
aaaataacttg	cattaggtct	cagctggggc	tgtgcacag	gcggtttgag	aaatattcaa	2460
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tgttcatgga	tagtccaata	aataatgtta	tctttgaact	gatgctcata	ggagagaata	2640
taagaactct	gagtgatatc	aacattaggg	attcaaagaa	atattagatt	taagctcaca	2700
ctggtcaaaa	ggaaccaaga	tacaaagaac	tctgagctgt	catcgtcccc	atctctgtga	2760
gccacaacca	acagcaggac	ccaacgcgat	tctgagatcc	ttaaatcaag	gaaaccagt	2820
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caagtctttt	cttccatccc	caccactaac	ctgaatgcct	agacccttat	ttttattaat	3060
ttccaataga	tgtgcctat	gggctatatt	gcttttagatg	aacattagat	atttaaagct	3120
caagaggttc	aaaatccaac	tcattatctt	ctctttcttt	cacctccctg	ctcctctccc	3180
tatattactg	attgcaactga	acagcatggg	ccccaatgta	gccatgcaaa	tgagaaaccc	3240
agtggtcctt	tgtggtacat	gcagcaaga	ctgctgaagc	cagaaggatg	actgattacg	3300
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tgtccctg	cttcagtgtc	ctctgcatct	cccctttcta	atgaagatcc	atagaatttg	3420
ctacatttga	gaattccaat	taggaactca	catgttttat	ctgccctatc	aattttttaa	3480
acttgcgtgaa	aatttaagttt	tttcaaaatc	tgtccttcta	aattactttt	tcttacagt	3540
tcttggcata	ctatatcaac	tttgattctt	tgttacaact	tttcttactc	ttttatcacc	3600
aaagtggctt	ttattctctt	tattattatt	atcttctttt	actactatat	tacgttgtta	3660
ttattttgtt	ctctatagta	tcaatttatt	tgatttagtt	tcaatttatt	tttattgctg	3720
acttttaaaa	taagtgattc	gggggggtgg	agaacagggg	agggagagca	ttaggacaaa	3780
tacctaatgc	atgtgggact	taaaacctag	atgatgggtt	gataggtgca	gcaaaccact	3840
atggcacacg	tatacctgtg	taacaaacct	acacattctg	cacatgtatc	ccagaacgta	3900
aagtaaaatt	taaaaaaaag	tga				3923

<211> 882
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(882)
 <223> n = A,T,C or G

<400> 691
 ttactcacta tagggctcga gcggccgctg aattctgctg cagtgagctg tgattatgtc 60
 cctgcactcc agcctggatg acagaacacg atcattttctc taaagacaaa caaaaaacat 120
 aaaataaaac tagtataagg atagaagccc agggttgatt taagtctgcg gaaatcataa 180
 accataggtc agactttctca ttgatgaggt acttgtgggt tagaatacaa ttaggtatat 240
 ttggtctaga aaccaggatg gaattagaga ataaaagact gagcaatagc atgttatagt 300
 attagaaata ctatagaaat aggaaaagcc ctgattatga ctttggagtt ctgatccaac 360
 atctgggatt atttagatat tttaaaggaa aacgatgact tttagctctc aggatgtag 420
 tttctcaac cataaaatga agagcctcga aaagatttctg tttaccagat tattttctgaa 480
 gtcaattcca gttctaaaaat tccatcactg ngcactaagg caaattgaat tgaataaagt 540
 attgggnatg cataaaatac tctattttta aaaangaata gtaattatcc attgnaaca 600
 gacgcantca tccagncatc tcctaccctg ncccatgncn tatgtagana tgtanctcta 660
 atcccttaac aaaccgattt tgcaaaggag cttanccttg gggtagcttg tcanggaac 720
 tgggtctactt tnaagactca tcttactta ctgggcacca aatncctacc attgcatcaa 780
 actgggggtc ccatncaagg caaacctgn gaaatcttta atcccgaaat tggcgcccaa 840
 ttttgnngggg tttccnaaaa gaatcntccc ccccgagggg cc 882

<210> 692
 <211> 235
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(235)
 <223> n = A,T,C or G

<400> 692
 ccgcactngt aangnccgcc agnngctgn aantccgctn agcncggatc cactagtcca 60
 ttgatggtaa aagggtagct tactggnatg tccgnetgct ccanganata atacncagga 120
 cttctcanag cacttaatat gttaatataa aactncgnga aaaaagatnt tcnatgaanc 180
 nttcctctta ggaggtcagg ngagaatagt gttaatgnca ttaagganag aacga 235

<210> 693
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 693
 nttatgtaag aaatgtcata tatcttttat tttcttttaa tcaaaataaa tatgactttg 60

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agcatcccat cccatgcccc atcctatcag aatggtagga acatcaacac aaataattag 120
taatgcaccg catctacatt cccatgctct ctttacttct tcagcattgc ctaaaggcat 180
aatacacott taattaatta attcagcctc ctaatgcaca ttaacaaagc ccctgctaga 240
ctctgtccat aatggnaaac ctgnatgatc cttgatatta acantttaag gaatgctcat 300
ggattggtnn cagacttaaa aaattgaggg ggctgaanaa aatctaangg anaaatcatg 360
gaagcatttg cacatattac ata 383

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<210> 694
<211> 204
<212> DNA
<213> Homo sapien

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<400> 694
tctcttggct ggtcagcctg aagggtggta atgactcacc aacgctacta atccttcttc 60
actgtccctt atttttttcc ctcccaggct cataactcga ggttaaactc tcttttatac 120
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<210> 695
<211> 670
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(670)
<223> n = A,T,C or G

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<400> 695
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cagggccacc caaaaggagg aagccggaag gaaaaaacag ggcccccca aaggagggaag 600
ncggagggcn aaaaanaggg ccccccccaa agngagaaaa ccnggnaggc nanaaaacn 660
ggggcccnn 670

```

```

<210> 696
<211> 317
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(317)
<223> n = A,T,C or G

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```

<400> 696
tgacccgtnn tttctgcaaa ggagagtggg gaaggagggn tgggaagaca aaagttacat 60

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gccactgtc atcgtggata catttcactt ttttcacatg actaaggagc tctccggagt      180
gaagagtgag taaatatgtt tattacgcat tcatttgcta agaatcatca agaaccctaaa      240
gttagagacg tttcgtgggt gaactttctc cctactgtct agtagaatta tatggggatt      300
ctggatctgc tgggtgcc                                     317

```

```

<210> 697
<211> 246
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(246)
<223> n = A,T,C or G

```

```

<400> 697
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tttttttctc tnacagagnt ntttttgtgc ccttggttct tatgctcana ctngcctaaa      180
aanatcaaaa gntacnnatg aaaaacntat nccatctnca naaaggaggt gnagntatta      240
ctttct                                     246

```

```

<210> 698
<211> 3674
<212> DNA
<213> Homo sapien

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<400> 698
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<210> 701

<211> 3228

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(3228)

<223> n = A,T,C or G

<400> 701

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```


<400> 702

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<210> 703

<211> 2904

<212> DNA

<213> Homo sapiens

<400> 703

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<210> 706

<211> 123

<212> PRT

<213> Homo sapiens

<400> 706

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Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys
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Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu Thr Gly
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Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala Ser Leu
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Tyr His Arg Glu Lys Gln Val Leu Ile Gly Gln Trp Val Glu Ser Gly
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<210> 707

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<400> 707

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Ala Ala Gly Ile Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val
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Glu Glu Lys Phe Met Thr Met Val Leu Gly Glu Ser Leu His Pro Pro
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Ser Phe Leu Phe Gln Ile His Ala Thr Trp His Val Gly Gln Glu Tyr
65 70 75 80

Leu Cys Pro Gly Ser Cys Leu Glu Gly Glu Val Val Cys Trp Glu Gly
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Ile Ala Gly Gln Glu Gly Asp Pro Gly Leu Arg Gly His Thr Lys Arg
100 105 110

Lys Lys Arg Ile Pro Arg Thr Tyr Pro Ser His Leu Trp Ile Pro Gly
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Pro Ala Gln Ser Leu Ala His Arg Arg His Trp Arg Asn Ala Pro Asn
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Leu Trp Leu Ala Leu Leu
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<210> 708

<211> 371

<212> PRT

<213> Homo sapiens

<400> 708

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Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala
35 40 45

Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp
50 55 60

Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala
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Gly Trp Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu
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 Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val
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 Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe
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<400> 712

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<210> 713

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<223> n=A,T,C or G

<400> 713

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<212> DNA

<213> Homo sapiens

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<221> misc_feature

<222> (1)...(714)

<223> n=A,T,C or G

<400> 714

```
nttgcgtgcc tggacgtnta ctctgcanga tctactactc atgngaattc taantacgga 60
ctcactatnc ggcanccgag gcgcagcagg gaanggggtca cctcccagtc tc           112
```

<210> 715

<211> 326

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(326)

<223> n=A,T,C or G

<400> 715

```
tactctanag gatctncgng tcatntggat tctatntcga ctcactctag ggctcnagcn 60
```

```

gtcngccggg caagttattc ggatcgtcgg gntccgagct tcgcaattaa ntgtgccatc 120
gttctncaac gttcctgact nggaancccc ngcngttcng atccnnggt acctagctcc 180
anntcccccg tntccttctt ggngtntcat naangaggac cncctcgat cnccttcct 240
taatctgcnc acnctgaacg nccaatggac atngtgcgtt taatntanna ggcccgnntc 300
gngtgccctt cccgtnannt cagctc 326

```

```

<210> 716
<211> 122
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(122)
<223> n=A,T,C or G

```

```

<400> 716
nntgcgtcgc ctgngcgtnt actctagatg atctgantag tcatatggat tctaatacga 60
ctcannatag ggctctagcg nggatncnga ttctctntcc ngattcantg acnccgggtan 120
ca 122

```

```

<210> 717
<211> 203
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(203)
<223> n=A,T,C or G

```

```

<400> 717
cntgcatgcc tgcaggtcga ctctagagga tctactagtc atatggatcg agcggccgcc 60
cgggcagggtg tnaatgataa anatgcatca tactanccta cagaanggag agataatgtt 120
ngntggacca ngttggtttt cttgcgtgtg tgtggcagta gtaagttatt agtttttana 180
atcantaccg ccctccgcac cac 203

```

```

<210> 718
<211> 168
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(168)
<223> n=A,T,C or G

```

```

<400> 718
ggcagganga tcncttgagc ccngaggtc gaggetacag tgagccanga gtgcactact 60
gtnnccgcoct ccgcatncac gngtggtccg atccccgggt accganctng anttcactgg 120
antttttttt aancgtnttg antggtacna ccctcgantc cctggctg 168

```

```

<210> 719
<211> 210

```


<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(210)
<223> n=A,T,C or G

<400> 719
cancgtcgnc ataacacgta ttttntgatn aagattctna ctgacccatn aantctacnt 60
ctcaagctct tncanngtcc agtnaangga atgtgtatnn gtngggatnc cacanaaaaa 120
aganatntcg gncgcttcat tantcatcct tcttaccan ntctctngat nncagtntg 180
ancntgaacg cacactacng gatntctcca 210

<210> 720
<211> 131
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(131)
<223> n=A,T,C or G

<400> 720
tccatcctaa tacgactcac tatagggctg ccaacctgcc atccactact gaggaagacc 60
cganactta ggggctcact gcgagccacc ggccacaggt cgtatagggc aaagcacng 120
gaagcaccct t 131

<210> 721
<211> 121
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(121)
<223> n=A,T,C or G

<400> 721
tccatcctaa tacgactcac tatagggccg ntgantnctg gcgaaaggct tacaattaag 60
naggaaaaan ganccaacaa ctaaaaaaaa nncggncgtg ncagcttinga tgactngtcc 120
a 121

<210> 722
<211> 246
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(246)
<223> n=A,T,C or G

```

<400> 722
anctggagtc ggcgcgtgca gtcacattgt ggatccanaa aatcggcaca agctctctntg 60
gnttctcga tatgaanaac actaatccca tgtngtntgn gtctccgtga ttcattccctc 120
gcacnggtcc ccntccnaac cnttgcatag gtgttatgtt gtantctccc cagtgcacaa 180
agattnacac tctctcantg tctganatat gcacgagttc attgtcctgt cncogtnaac 240
atcaag                                           246

```

```

<210> 723
<211> 160
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(160)
<223> n=A,T,C or G

```

```

<400> 723
cctccggaaa atccaantag agtaantncn ctctaattccg gggnaattgg nggggttnnat 60
acgtcctcct cccccagnt aggattnana aaaggntcc cagancaaaa nctccaaagt 120
gnatcnanta gccgtncccg ananccaacg cccctacgtc 160

```

```

<210> 724
<211> 156
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(156)
<223> n=A,T,C or G

```

```

<400> 724
tnanccnata tacaccaaatt tctgattcta aantcccacc caagggaaaa aagttgagaa 60
gagcctttcc acttttctac taataaaaaa atgcaccagc cctaccann agtgnggaaa 120
acctccttag gcccttgnnt ggaacaancg aaaatc 156

```

```

<210> 725
<211> 347
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(347)
<223> n=A,T,C or G

```

```

<400> 725
aganggttnt atncatgctg tactcgcgcg cctgcagtcg aactagtgg atccaaagaa 60
ttcggcacga gagacggtgc gcatgggacc gagggcccca gccgngagg cgcgcgcgcc 120
gagcccgcgg ncagacgccc catcagtagc gtccgcaccg ggnagccgcg gntctcgccc 180
gagccgtggg cgcgcgccgag gggcgggctc gcctcccgcc gtccctcgca gctctgccgg 240
gcccgagccc gcgcgcgtgc cgcgcgcgnc ttgccgctcg gnccgcgcgg nccggnaaac 300
gcggtcgagg tctggatgng gcanngccc cncctntcgc tgagcct 347

```

<210> 726
 <211> 162
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(162)
 <223> n=A,T,C or G

<400> 726
 ttgggtgggt tgggtggggg naaatttncc catttgggtg ggtttggggg ggnaaatact 60
 tccgccttt tnggtnccca aaganacnaa gggggagtcc cttnatagag gnagngcgat 120
 ncntcncaac nacntngact ttgnccatgg ggagnaaggt gg 162

<210> 727
 <211> 120
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(120)
 <223> n=A,T,C or G

<400> 727
 gtgtgggtgg ggaattccat tgtggttggg ggnaaatctc cgcttgtcca aagnacaggg 60
 ggggtcnctt anagngnagg gggttcctcc ccaccacttg ncttgnccat tnggagnaag 120

<210> 728
 <211> 130
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(130)
 <223> n=A,T,C or G

<400> 728
 gaccactgc agcgttnaac ttagcttgga ccgagctcgg atccctagtc cgtgtggtgg 60
 aattccatgt gtcgagagag gggcaaatac nctccaanac ancncctca tgctcnacac 120
 atattcgcat 130

<210> 729
 <211> 182
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(182)
 <223> n=A,T,C or G

```

<400> 729
cngactgctn gcgtttaaac ttaagcnagg taccgaacgg ggatnnacga ctantgatcg 60
gctggctgct tccagtcgat tanatttggtg aaaaagctga accncngccn gttaaggggg 120
annatgcaaa anatncatcc nnctgccccn taaactgntc tntccnaggg aaaaaangga 180
ag 182

```

```

<210> 730
<211> 678
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(678)
<223> n=A,T,C or G

```

```

<400> 730
cactcncact ccggacctag genottcacc actgctctct tcctcctcct cctcctcntc 60
ctcggggctg ggggaccttc cccagtgacc atctcacttt ggctgaancc cactcggggc 120
agcctgagtt tggggctott ggctttctca cctcctcgg cccctcctt ggcccgacc 180
aggccaaacc ggggcagccg taccttgagc ttgtgtccgg cctctccctc cccctctgcc 240
acctggtact cggcatggtt gcccccgga tggcgagagc tccacgtcgg gcagtgagaa 300
gcagaaagta cgctcggccc ctgggggctg ctctcagca ccctcgcccc ccaccctagc 360
tctggcccc agtgtgggca acttcagcct cagcccaccc tcgcctgtgg ccgcctcgcc 420
cgctgtgcc tctcggtta gccccacgtc caactcaagc tggggcactg tcacggtggg 480
catcttaaag acaccctcac ccaccagcag ctcaccacct gcaacctggg ctccaggcaa 540
aaaaagggtc acctggggca nctgaacct gtacctgctg tgccctctgc tgaanggaat 600
gttatctgaa cctgctgccc tgggggtact gccttcccaa aaccgggtca antccacctg 660
ttggaaggna aatncccc 678

```

```

<210> 731
<211> 135
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(135)
<223> n=A,T,C or G

```

```

<400> 731
gagatccgac gtcacccct tccggcgggc caagacgctg caactcccga ggcngcccaa 60
atatcttttg aagagcgctc ccagcccaac acaatggaat tccaccacac tggnnatgtg 120
gatccgagct aagcc 135

```

```

<210> 732
<211> 660
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(660)

```

<223> n=A,T,C or G

<400> 732

```
gcttggtacc gagctnggat ccctagtaac ggccgccagt gtgctggaat tcggctttct 60
tcaatcagnt nacgagctgc atggtctgct aacattgtca taattgctgg catagattac 120
tgaaaataaa gaaaaaaaaat tgaagctgcc tatcaagttt tggattatc aaaaacttcc 180
tacaagttat tttacttcaa ccatgttatt acaaattttt taatgaatac tttagagact 240
ttaattacaa aaaactgaga tagtaaaagc aagtaataaa agctgaaatt acttagctat 300
ttgataatta cataaattat tatggtccat tcaacttttc tagtgtttag tttatacacc 360
aggaagactt tcctattcta ctaacattta taaagtatgc taacctatta tttaaacgca 420
tccactatta ggattttatg gcctaaaacg tgatacagtt cagtatcttg atgtcaaac 480
tttttaagca agtagggatt aagttcaagt gaatgtgatt ttctttcttc ccagtagggg 540
cttctgaata actcagnaaa gctcacttcc attatcttac tttataaaaa aatgctataa 600
gacagaatgg gccgacgtgg nggctccacc tgtatccacc tttggaggcg agnggcgaat 660
```

<210> 733

<211> 836

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(836)

<223> n=A,T,C or G

<400> 733

```
aattaatgac tttttttccg ccctgccaa gctagtttgc taaatataat gtaaagaaat 60
tagctactca ttttctggtc cacgaagggt cctaaaaatgg gaagaagtgg agatctgacc 120
ttggttagttc taaatacact aaactgggag tgccatggat ggctttcagg atgtcctgaa 180
tcctctataa ttgtatacaa aatcgtgagt ttttaaaaac tgggttagag ctattggttc 240
ctcagagttc caggcatctt agaccccaa aaagggttaag gactactgac ttaaccaatt 300
aggtttaggt ggcattggct ttgaagaaaa gcagaggaaa gatataatctt ataattctgg 360
gcaacaaaaa agtggatgtg tgccagcatc ttagagtaga atcctcttaa aaggatagca 420
ctgcatatga actagtaggt ttaaccagt gcataattag gcgaagtagc tcatttttct 480
gttagaatcc ttttttatcc ggggaatggc aagcttttac agcttttacc ttgccaatga 540
atacctggaa tttaaaaaat cttgttaggc atattgccc taaagttttt tttcctagat 600
catatattca gtaaataatgt ttgtagcttt atttcaatcc cccaattcat tgagggttga 660
aacaatttga atggttttag tgtagaagct aagttatttc tgtagaggct aagggcattt 720
ataccaanat atgttagact tgnngntcct gttaaccatg ctgtanacaa taggaattac 780
tgtatatoca cattttaatt ttaacatctt ctgctttgnt gntgggttga gangga 836
```

<210> 734

<211> 694

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(694)

<223> n=A,T,C or G

<400> 734

```
nagtnctatt tncactaaac tgnagtgcc ttggatggct ttcaggatgt cctgaatcct 60
ctataattgt atacaaaatc gtgagttttt aaaaactggg ttagagctat tggttcctca 120
```

```

gagtctcagg catcttagac ccccaaaaag gttaaggact actgacttaa ccaattaggt 180
ttgagtggca ttggctttga agaaaagcag aggaaagata tatTTTataa ttctgggcaa 240
caaaaaagtg gatgtgtgcc agcatcttag agtagaatcc tcttaaaagg atagcactgc 300
atatgaacta gtaggtttta accagtgcac atttaggcga agtagctcat ttttctgtta 360
gaattctttt ttatttgga atgggcaagc ttttacagct tttaccttgc caatgaatac 420
ctggaattta aaaaatcttg ttaggcatac tgcccataaa gttttttttc ctagatcata 480
tattcagtaa atatgtttgt agctttatTT caatccccca attcattgag ggTtgaaaca 540
atttgaatgg tttgagtgtga gaagctaagt tatttctgtga gaggctaagg gcatttatac 600
caagatatgt tagacttgTg gttcctgtta accattgctg tagacaatag gaattactgt 660
atatccacat ttttaattttt aacatcattc tgtc 694

```

<210> 735

<211> 126

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(126)

<223> n=A,T,C or G

<400> 735

```

ncnttgaaac nggttgacca gacttcaggc ctgtgcgctc aatcgtggag aatctcgtgc 60
cgaattcggc acgagtctct ctctctctct ctctctctct ctctctctct ntctctctct 120
ctctct 126

```

<210> 736

<211> 165

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(165)

<223> n=A,T,C or G

<400> 736

```

cagaagcctt taaaccggtt ngaccagact tcaggcctgt gcgctcaatc gtggagaatc 60
tcgtgccgaa ttcggcacga gtctctctct ctctctctct ctctctctct ctctctctct 120
ctctctctct ctctctctct ctctctctct ctctctctct ctctc 165

```

<210> 737

<211> 125

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(125)

<223> n=A,T,C or G

<400> 737

```

ggnagccct ttaaccgttt gtccagactt caggcctgtg cgctcaatcg tggagaatct 60

```

cgtagcgaat tgggcacgag tctctctctc tctctctctc tctctctctc tctctntctc 120
tctct 125

<210> 738
<211> 137
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(137)
<223> n=A,T,C or G

<400> 738
ggagncnctt gancaggatg accgacttca ggccgtgtcg ctcaatcgtg gagaatctcg 60
tgccgaattc ggcacgagtc tctctctctc tctctctctc tctctctctc tctctctctc 120
tctctctctc tctctct 137

<210> 739
<211> 970
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(970)
<223> n=A,T,C or G

<400> 739
aggcctattt aggtgacact atagaacaag tttgtacaaa aaagcaggct ggtaccggtc 60
cggaattcgc ggccgcgctg acggcccttn gtgccactag ntctttcatt cttccccccc 120
atcaatcagt gaacttttta gctactcaa agctttgtct caatgcatag gatattatgat 180
tgtggggatt tccagataat ataaatatct aacatgaata ttttaaatta aggcatgaga 240
catttttctt aactgagcat agccatgaac ctctcacgtc tggtcctctg tgtcagtttg 300
tancactgaa tacagcagcc ctccataaag tccaggcagt gcacaggctc tgacatgatg 360
aagtgacgtg ttgctatggt gatatttgcag ctggccaaat agtcactggt tgattttacc 420
cagcaggaga tttttgcaaa aatttctctg gtgagagtga aatcaaactc ctattttgnt 480
tctcctctgc aagctgnagt taagatggat taatgagtac ttttagatta attaaactctg 540
aagagaaaat gggagaaaag tgaggaagggt tgttggcaga agtcattgct ggaatccttc 600
tgaaggaggat actgacttca cttgcaaaga cnagagacta naagacaatg aagttaaact 660
tggcctgtct ctcatatgat agatgctgag agtcaggntc agggaaattt aattctgtca 720
tacgcatatn ggattatgtg gtcattggatt tgttggcact aaccngcctn taatcagnat 780
aagaaaagtg ttttggtaga naaagaaaat tatggcccag aaaaacctgg aanacttgga 840
aaaaatgntn gggggccttg ggtggtggtc tnaaaanacc ccctggggat nttaaacca 900
aaantgaaga agggaaaaat ntttccctnt nttttntttt tttgcccctt tgggattggn 960
ttttntttcc 970

<210> 740
<211> 739
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(739)

<223> n=A,T,C or G

<400> 742

```

gntgtcnaaa aagcaggctg gtaccgggcc ggaattcgcg gccgcgtcga cggcccttgg 60
tgccactagt tctttcattc ttcccnccca tcaatcagtg aacttttttag cctactcaaa 120
gctttgctcc aatgcatagg atttatgatt gtgggggattt ccagataata taaatattca 180
acatgaatat tttaaattaa ggcatgagac atttttccta actgagcata gccatgaacc 240
tctcacgtct gttcctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
ccaggcagtg cacaggctct gacatgatga agtgacgtgt tgctatggtg attttgacg 360
tgccaaata gtcactgggt gatttttacc agcaggagat ttttgcaaaa atttcctggg 420
tgagagtga atcaaaactc tattttgttt ctctctgca agctgnagtt aanatggatt 480
aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggt 540
gttggcagaa gtcattgctg gaatccttct gaaggagta ctgacttcac ttgcaaagac 600
aagagactan aagacaatga agttaaactt ggctgtctn tcatatgata gatgcttgag 660
agtacaggnt cagggaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720
ctttgtttgg cncctaacc                                     739

```

<210> 743

<211> 610

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(610)

<223> n=A,T,C or G

<400> 743

```

ctgtccttat ttcttttagca aaaatttccc aagagaagaa ttgctgggat aatgcacatt 60
taaatttttg atagacattc ccaaatatta tacctgtttt tgagaccttt aattcctggt 120
gtcaaattgc cctatatatg gagtaataaa cacgatttaa agaaatgagg actaaaaaaa 180
gattatatat aaccaacat aaaggcaacc tcttaggcgt tgacagaaac tgacaacttt 240
ttatctgtgg gtgcgatcca ttataagtaa cctgagcacc ttattttttc tttttaaact 300
ctaggttaga taccgagggt ccacaaattt ttcataagaa atattttttc tctgccctat 360
gagattttta aaaatattat actgcttcaa ttgcatcaaa agaaatggac cctaatatct 420
atgatgaagg atttgaggtt agaagacctg agtttcaatt ttggcatggc tgtttgtcta 480
gctctngat cttggacagg tcaattgact tggtttaatc ttctcatcca tttagnngag 540
acagcaccac tattcacagg actattgnen gaattaccag acaatagcat agngaaaaat 600
ataangcctt                                     610

```

<210> 744

<211> 127

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(127)

<223> n=A,T,C or G

<400> 744
 ttnacctccc tggaccgggc ccccttccc cgggcggntc ccccgggctg caggaattct 60
 gcacgaggga gagagagttt gagagagaga gagagagaga gagagagaga gagananaga 120
 gagagag 127

<210> 745
 <211> 458
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(458)
 <223> n=A,T,C or G

<400> 745
 gatatacccg gattcgcggc cgcgtcgacg tggcctctag tttgtcctgg tccaaagcag 60
 ggaagctggg ctacgtcctg cccaggtcag ccttaggtta agggctgcct gggggaggga 120
 acttctctggg ccttcgggtc tctgtgcact ggggtggctc ctgtggccca gaatgccctg 180
 gagaaggggc ctactggaag cgaaggtgca gggcagcagg gcctgaggcg caggagctgg 240
 tggaggctcc cagcacaggt cgcgcggcca gtcacatcac tgctgatggg ggggggactt 300
 ggggagtttc ccccgagaat gggaggtctc acagtccccg tgctgcaatg ctgtcgggtgc 360
 actgngncng caatgtgctc atggncactt gctttttctc tgtggccccc gccgatttat 420
 ccagcanngc acccctcttc tncctctccg anaaagcc 458

<210> 746
 <211> 893
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(893)
 <223> n=A,T,C or G

<400> 746
 aagcaggctg gtaccggtcc ggaattcgcg gccgcgtcga cgtggggagtg tagctctctg 60
 gaccccgctc tagagtaagt catcgataga gcatttgctt gatggggact tccagaaggc 120
 canngaaagt cctgccgact tcctggggaa gcccatccgc acgtgggggtg aggggtcccca 180
 natggaagca gctgtgtatg cagggagggg gcagaggtg ctgccaatgg gcatgtccct 240
 tacctgaaag ggccacctct ccaggtgaca tgcctgggg gagccggggc cgtctgctcc 300
 ggccagaggc gctcagctca ggccacacca ggcagggcac ctcccaacct ggacaggtgg 360
 ggaccaaggt ggccttggac aaaactctct gtgtttgcca agcaccatc cggacacaga 420
 gagtcaacca caccacagtc acatgggtgtc cacacngcag ggggtcaagg gggccggccc 480
 ctccccctca gacgtccctg ggcctctggg agtcagcaag gacgaggacg gcattgccct 540
 tcgagacagg aaggagtgta cctcctcccg gcggcatcca ggctcngctt ctccggagag 600
 gagagggggc tacttgctgg ataaanccgc cggggccaca gagaaaaagc aaggtgacca 660
 tgagcacctt gcaaacacag tgcacccacc agcatttnag caccngggac tgtgaagacc 720
 tcccatttct tcggggggaa acncgcccac ngttcccccc acctcacta gtgnattgtg 780
 acctgggggn cgggcccagc cctgtngctt gggnnagccc tcnccccagg tttctnnggc 840
 ngcccnttaa nggnccctng nttggccctt tggccnccct tncgcttttc cca 893

<210> 747

<211> 738
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(738)
 <223> n=A,T,C or G

<400> 747
 gatatcccgga gaattcgcgg ccgcgtnac gaagcacaga cctgngccct gctctcatgg 60
 ggcagactgc catttgtcat tnattactga aggaaagga tcctcagttt gcttgtggac 120
 atttcaaatt tgaggtgaga gttggataag taagaataaa gctgctcttc aaagagatga 180
 atatagaaaa agaaacaaga tacagncttg gcagtaaggc tgggaggaag gggaaaagg 240
 aataaagaat gaaagagtga gaaatgtgag caggagctga acacagaaaa gttcagnac 300
 agaagcanaa ggagggaaga agggaggagg gtccctttca cagaggctca cgaggatgct 360
 ttatgngtgc catgcagtc atgttcagga tgtctgcttc ttanctctct acttttctaa 420
 tanaaatttg gatacttact gatcctacat atgtaacagg gagagaagg 480
 gcantaaatt gaaaaattgt tcacaatttc atttttttaa aaaaggaggc taacagaaga 540
 agaggttaat gtggttaatta taggatgnct cttgcgacac atgaatgnat ctggtatcat 600
 ctgagtggga ggggagctgt cttcctgacc caaaaggatc ctttcgttan ccgnactta 660
 ngccccaaa ctcaccacc ttggagaaat natttccttt tgggggtntc attaaancct 720
 tttggncccc gcaaaagc 738

<210> 748
 <211> 647
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(647)
 <223> n=A,T,C or G

<400> 748
 ctntgtggcg gtggtgtct catttgggtg gacttttttg gtcgtaggaa cctggatatng 60
 aggtcgagag taagacgggc tattagtagt cgcacggag ttatttgtga aaacctggt 120
 agggcctctg tctccgtgc gctcgctaa attggtatgg ctgcacttg aaacacggt 180
 ctaacacgcg ttgttagcgc ccttgctagc atgtgaagga cactggccct accaagaaag 240
 attcgagtcg ctccctccgg tatcgttcac ggaggcgata ttactcttc ttactacggt 300
 tacttcgaga ttgtctgtga agtttaagac tactaaaaag agtattaagc ctatcgggaa 360
 ttagctagat cgacacgcta aaaccaaggg caatcgggcg aaatatagag gcaccaataa 420
 tagggcctac agaaggcccg agggttagac tcacgtttta taccggccac gggagaaata 480
 aaaagataaa gtatacatcg tttagcggtc ctcggaagcc ttcggcttta atgccaagga 540
 gtcggaagca tcgtcggcga gtaataaact ccacgcgcc gagactatct acgacgccct 600
 ccttaanatc cgtaaattac tcccggaaag agtatttagg cggctct 647

<210> 749
 <211> 642
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(642)
 <223> n=A,T,C or G

<400> 749
 ctntgtggcg gtggntgtct catttgggtg gacttttttg gtcgtaggaa cctggatatgc 60
 aggtccgcgg agcgtgggct ctcgtcgtgg atgttggggg ttggtgtggt gccggttgtt 120
 tttggttctg ttgagcgtag tgtgtttgaa ggtagcgtt cgtgtcctgc ttgtggtttg 180
 gtgttttaggg cgggtgggga ggttgttgtg tagctgttgt atgtcatatt gttggtgttg 240
 ctgccctgtg ctgtttgtcc ttggttattg ttggtgttac ccgcctgtg ttggaagtgtt 300
 gtggcagggc gggaatttaa gtgggagagt tgtgggaccc gtggttgttg ttacgttgct 360
 gcttttgtcg tgggcggtgg cggcgctct gataattaga attggatacg gagtgtataa 420
 tacttctagt aaatggggac ctagtgttg acttcccgga ataggatct atgcgaagtc 480
 cttaggatag tctttgataa gtttaacgcc caccacccta aaattataca cgattagacg 540
 cataacgact cctccaggaa agataaagaa tctcacatat agaacgggac ccatacacg 600
 tcggatagga aacaagagaa ctaattttng ttaaaaagac tt 642

<210> 750
 <211> 639
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(639)
 <223> n=A,T,C or G

<400> 750
 tttgtggcgg tgggtgtctca tttgggtgga tttttgggtc gtaggtaacc tggatatngag 60
 gtatagatgc cgattgggtcc cgacgagcgt caccgataaat tcggtagttt cgcccttttt 120
 agaaggcgct agtactcgga acttcacttc atctcggtag ttacttttg cgtatatagc 180
 cttctccctc gaagactagc cgtcacattc gttccctagg aatcgtttct gcccctaaga 240
 atccgagagc gagatcccga aactagagga accctagaag agtcgtattt ccacaaggac 300
 cccacagtca ttccgggaaa atccctagga ccatacgggt aggattcccc cggaaccggg 360
 agcaaagctc atgatttccc acaccgcgag agcgcctata accctatccc atttcttcgg 420
 gttatcgagg atattacgat caagccgaga gaaccgctag aaccgctttc ttcgctttct 480
 caccggaacct ataagtagaa agagaaactc aggtcttaag ggggcgcttc ggctaacgaa 540
 acttctactt acgaagagag tatctagaca ttaagtcata aaaatccact acgcacctcg 600
 tgtacgatat catcggggagc ggttcataga cggtgtccg 639

<210> 751
 <211> 637
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(637)
 <223> n=A,T,C or G

<400> 751
 cttttgtggc ggnggtgtct catttgggtg gattttttgg tcgtaggnaa cctggatatng 60
 aggcagctct gagccccccc ccccccccc cccccnccc ccccccccta ggnggttggg 120
 aanacggtgg atacctaaat cgagtngtt cattaaaagt agttgattac nccctaaaat 180
 aanaanaggg cttcgtcggg anaaatcggg aagganaagt ctttntggca tcataanaat 240

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actggctcgg gtcctaanaat ntttaaggng gtcnccgagg gtnttcatac cgataanaaa 300
cgtttttcta tcggcaacgg gcttacctga gggnggactt ctncgnggc ggngattnan 360
acgaanacgt agaggattnc cgtacttnt tganatcacn cgtatcatac ttgtaagcat 420
aattntcctg aaaagtgtta taanaatacg cncgcatatt cgctttttcg tcctagggat 480
gcttaaatgg cgatactgct atagcgggtg agcgttggtt ctcgagnaan aaagcgtgtc 540
ctaattgcgtc taaggnttta agnccgttgg tttaaaaata nccttagaaa cctcgaggcg 600
gatactgggt tntttttaac gaaacaaagc accccnn 637

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<210> 752
<211> 644
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(644)
<223> n=A,T,C or G

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<400> 752
tntgtggcgg tgggtgctcat ttgggtggat ttttgggtcg taggaacctg gtatgaggtc 60
ttgcgagttg ttgggtgtgtc ctgtcgttcg gtggttcctt tttgagttga gtttgcctt 120
tgaggtttgt agctgctgtt cgtttgtgtt cgtgtagtgc tttgggttga gagggttatg 180
gtggtgggtta cgggtgtattg tcgcccggtg tcgcgggggt ggggtgggtc tcggttttgt 240
ggttcatagt agtcttctgc gttcgggtgt gcgggtttgg gtgagtagtt tcgttcttgg 300
atgtcccat gacccgccat aatctaagta agggtagta gaaacctct cccgatagac 360
acaaccgtcg tccactaaag acctcgctc tgatttttaa aaggaccga aaaacatccc 420
ttcaacggaa aaaacggaaa aaaagtcagc gaattcaaag aagccacggg agagaaaaaa 480
gaactaaagt tagtccgtca ttatatgtct cctcggagga ggaagcggcg gtggcggaaa 540
atgagggcgt aagaaagacg acctctatcg gcggttang ccctaaaagg gcgatacctt 600
acgggatgat aaggacccta ggacgcctcc ttctcggatc gtcc 644

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<210> 753
<211> 635
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(635)
<223> n=A,T,C or G

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<400> 753
ctttgtggcg gtggtgctca tttgggtgga tttttgggtc gtaggaacct ggtatgaggg 60
aatcagctcg accccccccc cccccccct ccgaagcaga gccaaccca aagtccaccg 120
actacccgag taaactctcg gagggtagaa taagaaggag taggtcctag ccaatagaag 180
tagttccgag ccgttaggac agcggacgga acattnaaga aagagcctat attagggagg 240
aagtaacggt cctctttcgg agctctttaa ggggtagtcc cagaacaagg gaagaggacc 300
cgtcggctat tgcccgctga tacgggctct caccgngagc ctaggttcga ggatagggcc 360
gctcgtaaaa ttatacgggt tccgagaaac gcttccgtag accgggtcct aaatcgtccg 420
gagtattngg agagggatcc ttcggaccct agggacagag agaggagAAC ggaggttaca 480
ggaggagAAC gtntcctcnc tagttttctt tangtcgaaa aatttcttac cgataggggt 540
cctaggggtc gngaatttac gggtcgaaaa acggtagtnc ctaanggntg ntattngggg 600
tagtatcggg tcgtttacaa ntcgtccgtc ttntg 635

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<210> 754
 <211> 721
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(721)
 <223> n=A,T,C or G

<400> 754
 accggattng tttnctgagcg cgtgactgct aataaaaaag atggantgcc atctttttttt 60
 ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcngggct ataaaatttg 120
 gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
 ctcaaggga gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
 gttttgtagg ctttttttcc ccttctttcc ctctctcagc ttctccctgc ttctcagaan 300
 atggagtgt gatgcctgca acttaccaaaa tttatctatg aatcagattc cagtgggaga 360
 cccctaaagc agagggagaa taaggagtgc tccccatgat ggaaaatata caaagacaag 420
 gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
 gtgtacactt tatctgtctc tttgcttctt cccccacctc tttcccagct ctctctctgt 540
 ctctctcttg ntcccctgac ccttttttct tcccantgca tacttttttn tttccctttt 600
 ttaatcttct atantcttaa ncctaccaan gggccctont gannaatttn tcacccctga 660
 ataggggatt cnttangccc tgagaatttc nttatcanaa aaatatatttt ttaaagcatt 720
 a 721

<210> 755
 <211> 721
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(721)
 <223> n=A,T,C or G

<400> 755
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 ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcngggct ataaaatttg 120
 gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
 ctcaaggga gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
 gttttgtagg ctttttttcc ccttctttcc ctctctcagc ttctccctgc ttctcagaan 300
 atggagtgt gatgcctgca acttaccaaaa tttatctatg aatcagattc cagtgggaga 360
 cccctaaagc agagggagaa taaggagtgc tccccatgat ggaaaatata caaagacaag 420
 gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
 gtgtacactt tatctgtctc tttgcttctt cccccacctc tttcccagct ctctctctgt 540
 ctctctcttg ntcccctgac ccttttttct tcccantgca tacttttttn tttccctttt 600
 ttaatcttct atantcttaa ncctaccaan gggccctont gannaatttn tcacccctga 660
 ataggggatt cnttangccc tgagaatttc nttatcanaa aaatatatttt ttaaagcatt 720
 a 721

<210> 756
 <211> 873
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(873)
 <223> n=A,T,C or G

<400> 756
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 ggaaactgtc agcctgtctc tttcactttg ggcaagtga agcaaagacg tccagtccta 120
 tcagcaatta ggctgaaagt caacgccaag ctggcgggca agggctgggc tgagtagagg 180
 ttccctaggc aggcaagaga gagactccca ctcgatactc ccagctcggc aactgcctga 240
 atgccaatga gcactcatta taaccgccc tattttatag gatttaattt tacacttcag 300
 gcttaatcag tctgaaagtt aaactgacag tgtaaagtta cggaatcaat gacatttagg 360
 ctttatgact ttgtagctga atatctatgg gctatatttc cattctaaca gtgatatact 420
 gttccagaat ctcatctttt ggtgatggca ctttctagtg gagcagtcac ggtaacagtc 480
 cacaccatt accatgtggg tgctttacag catactgacg gaaggactga ggagccaccg 540
 gagcaggagt tcctctcagg gaggacgctg acacttccac agctgcctan gtatgggcac 600
 ctgatgccaa cgaanaaccc aaagcgtctt cccttccaga tggaagctgc cccacactgg 660
 gctgacagca tctggagctg ctctggctca aatcccgaa tcgcacanct cctanccggg 720
 gcgtttanag atcctcnggg ccagctaccg accacttttg acaagggnct taggagcgat 780
 aactagnctg gcgcgttaca cncggatgga acgtcttgga cttgagacct cttgggggan 840
 atggcncccc caaataantt gggaaaantn ggg 873

<210> 757
 <211> 782
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(782)
 <223> n=A,T,C or G

<400> 757
 ggccccctga gggataactt agagcggccg ccgactagt agctcgtcga cgatatcccg 60
 ggatttgaga ccaggagaca gctccagatg ctgtcagccc agtgctgggg gcaggcttcc 120
 atctgtgaag tggagaggcg ctttgggctt ctctgttggc atcagggtgc catacctagg 180
 gcagctgtgg aagtgtcagc gtctcctctg agaggaactc ctgctccggg ggctcctcag 240
 tccttccgtc agtatgctgt aaagcaccca catggtaatg ggtgnggact ggtaccatga 300
 ctgntccctt aaaaggtggc cttcccnaag aaaggagaat tcttggacna gggatttcac 360
 ttgnttagaa atgggaaaaa ttaccatta gaattttcgn ttccaaggcn tnaagncccta 420
 aaaggccctt gattcccga ccttaaccct gggcagttaa cctttcaaac gggataaacc 480
 ctgangggga aaatnaaatc ctttaaaaaa gggggggttt naaggagggc tctttggctt 540
 tcaggcantt gccaacctgg gaaattcana ggggaagtnt ttttttttgc ctgcctaggg 600
 aacctttact taaacnaacc cttgncccc catttggggt tgactttcan cctaattgct 660
 gaaaggaccg ggccgntttt gntttccttt gncccaaagg naaanaaacg ggtgccantt 720
 ccangggat tanttcccga aaatttggnn aattttntt tgnaactttt tgggtttttt 780
 cc 873

<210> 758
 <211> 647
 <212> DNA
 <213> Homo sapiens

<400> 760
ctttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatgna 60
ggaaaagaag taagcctcga agcctatctc cgaccgtatt tatttcgcag aagacggaac 120


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tacggacgtc gttaaccccg agtagccccc gtaagaaagg actaaagcga atggaaaagt 180
cggaattcc ggccgagggg cggcgattac tgaaaggagt aagagtaaga ctattgcat 240
acttgaggcg ttccctctta aaaggcaccg gaaacactct attaaaaaac acccgaagaa 300
gaacaactca tgcgatcggc cgtgtgcagc cgtcaatagt aaagagagcc atgaaccatg 360
ccatccttag accaattagg atgaagaaga ggaggaagat gaggaccaa ccctaccac 420
tcggaaaacc ccgcacgagc ctccgaacaa aatccgggaa ttaaacggc ggcccacttc 480
cgactctcg tagcgcgagc cgaatagaaa accggaaact acagctaaag ggtcctttcc 540
ggcctgttat ctaccacccc gcaatccgat cctccccccc cctcgtccaa aaaccctaac 600
ctctgcggca acattagagc agaaggagag ggcgatccct tgan 644

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<210> 761

<211> 647

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(647)

<223> n=A,T,C or G

<400> 761

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ctttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60
ggcgggtact ctctgggata atcgggtataa gtgttgtaaa attgggggta agagaaagt 120
tcattataag aagtgggaagc acgagccggg gtgttttagtc gttaatatta agaccggtt 180
ttgttgtagt tatatagctt gcgcgtgggg aggcaataag aaacattgcy tttcgaggcc 240
ggatgcgggg aaccctcttc ggggtctaga gcgcgcgcatc tgcaaaataa ggactactga 300
cgccgctcat aacgtactca acaatgagtc gcctgcatt aagatttcgcy cgaagaaccg 360
tactgcgtct actgatagta tattgcattg atagcggcat gagctttatc acgtgtcgtt 420
ttcgggttgt aagaagggag ttaagtcgat ctccgaggaa gaagagacc caaataaaaa 480
atgactcaaa aaaacctaga agaaacacga cgaaaggaaa aagaacgtta aaactagtag 540
ctcttcggan gagtagcctt agtagggtaa gtcctccgtg cgtactgtcc taaggtttgg 600
atagcgcggt tgaatagacg gtcacgcgtc agaaggtaaa aanccgg 647

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<210> 762

<211> 628

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(628)

<223> n=A,T,C or G

<400> 762

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cattgtgttg gggtcactga gccactttt ttccagattt tttgtaaaat tgtttcgc 60
tgtgttccct ttattcgctt gtattaatat ttgcgtagtg gattaaacaa atacttggtg 120
ttgactgtca gtcttagagg actgactaga agtagttttc atttggggct caggaaatac 180
ctactttata tttctagcta attaggaaag tcatttttca gttagggttg tgttttggtt 240
caggcactcg ctagctagat gacctaacat gctacttaat ttctgagtgt ttgtgtccat 300
ccctgtagga ttgttgccgg gttaaatgaa attgtgtata tttgtaaagc atttacctca 360
gtgcccagac tgtgacagag tagattatta ggcttgctct tatttctgtg attaaattta 420
gtgtcagatt agcaacctat agctacttct aaagctgctg ctgctttctt tgtttagggt 480
taggaagaaa catgctggac agtttgccaa atgagagtta catgatgtgg cttgtgggaa 540
cattctaact tggaacttgc ccatttccag gactttgnng ttcanagatt tttggggata 600

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gatgtaaggg ttaaaaaaa cngaaaac

628

<210> 763
<211> 147
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(147)
<223> n=A,T,C or G

<400> 763
cattgtgttg gggcagagat aaataattcc tctgaaaagt gttttattgg aatttcaa 60
gaaaagctaa ctggataact tacagcatgt ttctgccaat aatctcttan aacaggcctc 120
ttttttttat gcacaccacc ttcnggc 147

<210> 764
<211> 146
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(146)
<223> n=A,T,C or G

<400> 764
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agagttaggg ggactgttag aacagagaaa ganatcatgg gggtgggttt gactctgatg 120
nnnaactggt gccgnntgct cagtat 146

<210> 765
<211> 129
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(129)
<223> n=A,T,C or G

<400> 765
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ccagtgtggg nggaattcca ttgtgttggt gcaggaggng ctttgngtac ngtgcggtg 120
nagaggcgg 129

<210> 766
<211> 175
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(175)
 <223> n=A,T,C or G

<400> 766
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 tctggggctt ggntttttctc ctttgtanaa tgatgccttt ctgtgggttt gtcattttcta 120
 acattctgtg ngtgatgagg tgtatatctg angantctta tcnccanagt actct 175

<210> 767
 <211> 602
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(602)
 <223> n=A,T,C or G

<400> 767
 nnnnttaaaa nctgtntctc ccgcggtggc ggccgctcta gaactagtgg atcctttcca 60
 cctggtttgt tttcagtggt taatcctatt agtatcagca ggatataggt caggatatca 120
 ggtgcagaac ctgtggaatc agccaatttg gcttgctcat ttactttaat aagggtcccat 180
 aatgagtgag agtacaaagt tcaagccctg ttgagggtct gcattaaact ctcagaagta 240
 tttagagtggt gccaggagcc gcgaagggtc ggttcgggtg gtggcgggaa ctgtattaga 300
 gtgctaggca cggcgcgaca aagtctgtcc aaccctaaac ggtgctgagg cgttgggtgt 360
 gagctccagt actcagaaaa gcctctcagc aggtactcaa cagatcctca ggggcttggg 420
 ggcccagcac tggcagtgag ggcatgaaag acataaaaagg gcactacctg tgggtatttt 480
 ctgtttctcca aggaggaagt agcaaaaatt aggacgctgg aatatcctat gttgtagcaa 540
 tcccagaaca actgatgctc aacaaatacc acacaaaaca aattttttta aatttaattct 600
 ta 602

<210> 768
 <211> 671
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n=A,T,C or G

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 canaaaatng n 671

<210> 769
 <211> 877
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)...(877)
 <223> n=A,T,C or G

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 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n=A,T,C or G

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 <212> DNA
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<210> 772
 <211> 586
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(586)
 <223> n=A,T,C or G

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<210> 773
 <211> 2983
 <212> DNA
 <213> Homo sapiens

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<210> 774

<211> 3064

<212> DNA

<213> Homo sapiens

<400> 774

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<210> 775

<211> 684

<212> PRT

<213> Homo sapiens

<400> 775

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Pro Asp Leu Pro Lys Gly Tyr Asp Gly Trp Gln Ala Val Asp Ala Thr				
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Pro Gln Glu Arg Ser Gln Gly Val Phe Cys Cys Gly Pro Ser Pro Leu				
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Thr Ala Ile Arg Lys Gly Asp Ile Phe Ile Val Tyr Asp Thr Arg Phe				
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Val Phe Ser Glu Val Asn Gly Asp Arg Leu Ile Trp Leu Val Lys Met				
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Ile Gly Lys Asn Ile Ser Thr Lys Ala Val Gly Gln Asp Arg Arg Arg				
		420		425
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Asp Ile Thr Tyr Glu Tyr Lys Tyr Pro Glu Gly Ser Ser Glu Glu Arg				
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Gln Val Met Asp His Ala Phe Leu Leu Leu Ser Ser Glu Arg Glu His				
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Arg Arg Pro Val Lys Glu Asn Phe Leu His Met Ser Val Gln Ser Asp				
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Gln Leu Tyr Thr Gly Lys Lys Met Ala Lys Leu Cys Asp Leu Asn Lys				
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Thr Ser Gln Ile Gln Gly Gln Val Ser Glu Val Thr Leu Thr Leu Asp				
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Gln Pro Gly Glu Thr Ile Gln Ser Gln Ile Lys Cys Thr Pro Ile Lys
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<210> 776

<211> 679

<212> PRT

<213> Homo sapiens

<400> 776

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Gly Pro Asn Pro Ser Ile Ala Lys His Thr Leu Val Val Leu Asp Pro
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Arg Thr Pro Ser Asp His Tyr Asn Trp Gln Ala Thr Leu Gln Asn Glu
85 90 95

Ser Gly Lys Glu Val Thr Val Ala Val Thr Ser Ser Pro Asn Ala Ile
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Leu Gly Lys Tyr Gln Leu Asn Val Lys Thr Gly Asn His Ile Leu Lys
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 Pro Val Leu Val Cys Arg Ala Met Cys Ala Met Met Ser Phe Glu Lys
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3639

<213> Homo sapiens

<223> Xaa = Any Amino Acid

Gly Met Val Ser Asn Arg Asp Thr Leu Ile Arg Asn Cys Asp Ala Glu
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Gly 225	Tyr	Phe	Leu	Ala	Gln 230	Tyr	Leu	Met	Asp 235	Phe	Thr	Arg	Asp 240	Pro	
Leu	Tyr	Ile	Leu	Asp 245	Asn	Asn	His	Thr	His 250	Leu	Leu	Leu	Val	Asp 255	Asn
Gly	Cys	His	Gly 260	His	Pro	Thr	Val	Glu	Ala 265	Lys	Leu	Arg	Asn 270	Gln	Leu
Glu	Lys	Tyr 275	Ile	Ser	Glu	Arg	Thr 280	Ile	Gln	Asp	Ser	Asn 285	Tyr	Gly	Gly
Lys	Ile 290	Pro	Ile	Val	Cys	Phe 295	Ala	Gln	Gly	Gly	Gly 300	Lys	Glu	Thr	Leu
Lys 305	Ala	Ile	Asn	Thr	Ser 310	Ile	Lys	Asn	Lys	Ile 315	Pro	Cys	Val	Val	Val 320
Glu	Gly	Ser	Gly	Gln 325	Ile	Ala	Asp	Val	Ile 330	Ala	Ser	Leu	Val	Glu	Val 335
Glu	Asp	Ala 340	Leu	Thr	Ser	Ser	Ala	Val 345	Lys	Glu	Lys	Leu	Val 350	Arg	Phe
Leu	Pro	Arg 355	Thr	Val	Ser	Arg	Leu 360	Pro	Glu	Glu	Glu	Thr 365	Glu	Ser	Trp
Ile	Lys 370	Trp	Leu	Lys	Glu	Ile 375	Leu	Glu	Cys	Ser	His 380	Leu	Leu	Thr	Val
Ile 385	Lys	Met	Glu	Glu	Ala 390	Gly	Asp	Glu	Ile	Val 395	Ser	Asn	Ala	Ile	Ser 400
Tyr	Ala	Leu	Tyr	Lys 405	Ala	Phe	Ser	Thr	Ser 410	Glu	Gln	Asp	Lys	Asp 415	Asn
Trp	Asn	Gly	Gln 420	Leu	Lys	Leu	Leu	Leu 425	Glu	Trp	Asn	Gln	Leu 430	Asp	Leu
Ala	Asn	Asp 435	Glu	Ile	Phe	Thr	Asn	Asp 440	Arg	Arg	Trp	Glu 445	Ser	Ala	Asp
Leu	Gln 450	Glu	Val	Met	Phe	Thr 455	Ala	Leu	Ile	Lys	Asp 460	Arg	Pro	Lys	Phe
Val 465	Arg	Leu	Phe	Leu	Glu 470	Asn	Gly	Leu	Asn	Leu 475	Arg	Lys	Phe	Leu	Thr 480
His	Asp	Val	Leu	Thr 485	Glu	Leu	Phe	Ser	Asn 490	His	Phe	Ser	Thr	Leu 495	Val
Tyr	Arg	Asn	Leu 500	Gln	Ile	Ala	Lys	Asn 505	Ser	Tyr	Asn	Asp 510	Ala	Leu	Leu

Thr	Phe	Val	Trp	Lys	Leu	Val	Ala	Asn	Phe	Arg	Arg	Gly	Phe	Arg	Lys
515						520						525			
Glu	Asp	Arg	Asn	Gly	Arg	Asp	Glu	Met	Asp	Ile	Glu	Leu	His	Asp	Val
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Ser	Pro	Ile	Thr	Arg	His	Pro	Leu	Gln	Ala	Leu	Phe	Ile	Trp	Ala	Ile
545				550						555				560	
Leu	Gln	Asn	Lys	Lys	Glu	Leu	Ser	Lys	Val	Ile	Trp	Glu	Gln	Thr	Arg
				565				570						575	
Gly	Cys	Thr	Leu	Ala	Ala	Leu	Gly	Ala	Ser	Lys	Leu	Leu	Lys	Thr	Leu
		580				585						590			
Ala	Lys	Val	Lys	Asn	Asp	Ile	Asn	Ala	Ala	Gly	Glu	Ser	Glu	Glu	Leu
595						600				605					
Ala	Asn	Glu	Tyr	Glu	Thr	Arg	Ala	Val	Glu	Leu	Phe	Thr	Glu	Cys	Tyr
610						615				620					
Ser	Ser	Asp	Glu	Asp	Leu	Ala	Glu	Gln	Leu	Leu	Val	Tyr	Ser	Cys	Glu
625				630				635						640	
Ala	Trp	Gly	Gly	Ser	Asn	Cys	Leu	Glu	Leu	Ala	Val	Glu	Ala	Thr	Asp
				645				650						655	
Gln	His	Phe	Ile	Ala	Gln	Pro	Gly	Val	Gln	Asn	Phe	Leu	Ser	Lys	Gln
		660				665						670			
Trp	Tyr	Gly	Glu	Ile	Ser	Arg	Asp	Thr	Lys	Asn	Trp	Lys	Ile	Ile	Leu
		675				680						685			
Cys	Leu	Phe	Ile	Ile	Pro	Leu	Val	Gly	Cys	Gly	Phe	Val	Ser	Phe	Arg
690						695				700					
Lys	Lys	Pro	Val	Asp	Lys	His	Lys	Lys	Leu	Leu	Trp	Tyr	Tyr	Val	Ala
705				710				715						720	
Phe	Phe	Thr	Ser	Pro	Phe	Val	Val	Phe	Ser	Trp	Asn	Val	Val	Phe	Tyr
				725				730						735	
Ile	Ala	Phe	Leu	Leu	Leu	Phe	Ala	Tyr	Val	Leu	Leu	Met	Asp	Phe	His
		740				745						750			
Ser	Val	Pro	His	Pro	Pro	Glu	Leu	Val	Leu	Tyr	Ser	Leu	Val	Phe	Val
755						760				765					
Leu	Phe	Cys	Asp	Glu	Val	Arg	Gln	Trp	Tyr	Val	Asn	Gly	Val	Asn	Tyr
770						775				780					
Phe	Thr	Asp	Leu	Trp	Asn	Val	Met	Asp	Thr	Leu	Gly	Leu	Phe	Tyr	Phe
785				790				795						800	

Ile Ala Gly Ile Val Phe Arg Leu His Ser Ser Asn Lys Ser Ser Leu
 805 810 815
 Tyr Ser Gly Arg Val Ile Phe Cys Leu Asp Tyr Ile Ile Phe Thr Leu
 820 825 830
 Arg Leu Ile His Ile Phe Thr Val Ser Arg Asn Leu Gly Pro Lys Ile
 835 840 845
 Ile Met Leu Gln Arg Met Leu Ile Asp Val Phe Phe Phe Leu Phe Leu
 850 855 860
 Phe Ala Xaa Trp Met Val Ala Phe Gly Val Ala Arg Gln Gly Ile Leu
 865 870 875 880
 Arg Gln Asn Glu Gln Arg Trp Arg Trp Ile Phe Arg Ser Val Ile Tyr
 885 890 895
 Glu Pro Tyr Leu Ala Met Phe Gly Gln Val Pro Ser Asp Val Asp Gly
 900 905 910
 Thr Thr Tyr Asp Phe Ala His Cys Thr Phe Thr Gly Asn Glu Ser Lys
 915 920 925
 Pro Leu Cys Val Glu Leu Asp Glu His Asn Leu Pro Arg Phe Pro Glu
 930 935 940
 Trp Ile Thr Ile Pro Leu Val Cys Ile Tyr Met Leu Ser Thr Asn Ile
 945 950 955 960
 Leu Leu Val Asn Leu Leu Val Ala Met Phe Gly Tyr Thr Val Gly Thr
 965 970 975
 Val Gln Glu Asn Asn Asp Gln Val Trp Lys Phe Gln Arg Tyr Phe Leu
 980 985 990
 Val Gln Glu Tyr Cys Ser Arg Leu Asn Ile Pro Phe Pro Phe Ile Val
 995 1000 1005
 Phe Ala Tyr Phe Tyr Met Val Val Lys Lys Cys Phe Lys Cys Cys Cys
 1010 1015 1020
 Lys Glu Lys Asn Met Glu Ser Ser Val Cys Cys Phe Lys Asn Glu Asp
 1025 1030 1035 1040
 Asn Glu Thr Leu Ala Trp Glu Gly Val Met Lys Glu Asn Tyr Leu Val
 1045 1050 1055
 Lys Ile Asn Thr Lys Ala Asn Asp Thr Ser Glu Glu Met Arg His Arg
 1060 1065 1070
 Phe Arg Gln Leu Asp Thr Lys Leu Asn Asp Leu Lys Gly Leu Leu Lys
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Glu Ile Ala Asn Lys Ile Lys
1090 1095

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<212> DNA
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<210> 784
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<210> 786
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<400> 786

tacaccatcg ggctgggcct gcacagtctt gaggccgacc aagag 45

<210> 787
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ttccagaact cctacaccat cgggctgggc ctgcacagtc tt 42

<210> 788
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<212> DNA
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<400> 788
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<212> DNA
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<400> 792
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<212> DNA
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<210> 794
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<400> 794
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<210> 795
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<210> 796
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<210> 797
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<210> 798
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<210> 801
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<400> 802
 Tyr Thr Ile Gly Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu
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<400> 803
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<210> 804
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<400> 804
 Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
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<210> 805
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His	Pro	Gln	Trp	Val	Leu	Ser	Ala	Ala	His	Cys	Phe	Gln	Asn	Ser
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<211> 15

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<400> 806

Ser	Gly	Val	Leu	Val	His	Pro	Gln	Trp	Val	Leu	Ser	Ala	Ala	His
				5					10					15

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<400> 807

Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln	Trp	Val
				5						10				15

<210> 808

<211> 15

<212> PRT

<213> Homo sapiens

<400> 808

Ala	Leu	Val	Met	Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val
				5					10					15

<210> 809

<211> 17

<212> PRT

<213> Homo sapiens

<400> 809

Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu	Val	Met	Glu	Asn	Glu	Leu	Phe	Cys
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Ser

<210> 810

<211> 15

<212> PRT

<213> Homo sapiens

<400> 810

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5 10 15

<210> 811

<211> 15

<212> PRT

<213> Homo sapiens

<400> 811

Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser
5 10 15

<210> 812

<211> 15

<212> PRT

<213> Homo sapiens

<400> 812

Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser
5 10 15

<210> 813

<211> 15

<212> PRT

<213> Homo sapiens

<400> 813

Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
5 10 15

<210> 814

<211> 15

<212> PRT

<213> Homo sapiens

<400> 814

Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu
5 10 15

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<211> 35

<212> DNA

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<220>

<223> PCR primer

<400> 815

ggaccagcat atgaggaaca gaaggaatga cactc

<210> 816
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 <212> DNA
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<220>
 <223> PCR primer

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 ccgctcgagt ccacccaag cttcacagg

29

<210> 817
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 cggagcacag acttgtctta cagtgaagc gacttggtga attttattca agcaaatttt 120
 aagaaacgag aatgtgtctt ctttaccaaa gattccaagg ccacggagaa tgtgtgcaag 180
 tgtggctatg cccagagcca gcacatggaa ggcacccaga tcaaccaaag tgagaaatgg 240
 aactacaaga aacacaccaa ggaatttcct accgacgcct ttggggatat tcagtttgag 300
 aactagggga agaaaggga gtatatacgt ctgtcctgcg acacggacgc ggaaatcctt 360
 tacgagctgc tgaccagca ctggcacctg aaaacaccca acctggcat ttctgtgacc 420
 gggggcgcca agaacttcgc cctgaagccg cgcctgcgca agatcttcag ccggctcatc 480
 tacatcgcg agtccaaagg tgcttgatt ctacgggag gcacccatta tggcctgatg 540
 aagtacatcg gggagggtgt gagagataac accatcagca ggagttcaga ggagaatatt 600
 gtggccattg gcatagcagc ttggggcatt gtctccaacc gggacacccat catcaggaat 660
 tgcgatgctg agggctatatt tttagcccag taccttatgg atgacttcac aagagatcca 720
 ctgtatatcc tggacaacaa ccacacacat ttgtgtctcg tggacaatgg ctgtcatgga 780
 catcccactg tgaagcaaa gctccggaat cagctagaga agtatatctc tgagcgact 840
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 aaagagactt tgaagccat caatacctcc atcaaaaata aaattccttg tgtgggtggtg 960
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 agacccaagt ttgtccgctt ctttctggag aatggcttga acctacggaa gtttctcacc 1440
 catgatgtcc tcaactgaact cttctccaac cacttcagca cgcttggtga ccggaatctg 1500
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 aacttccgaa gaggtctccg gaaggaagac agaaatggcc gggacgagat ggacatagaa 1620
 ctccacgacg tgtctctat tactcggcac cccctgcaag ctctcttcat ctggggccatt 1680
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 gctgctgggg agtccgagga gctggctaag gactacgaga cccgggctgt tgagctgttc 1860
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 <212> PRT
 <213> Homo sapiens

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 Val Asn Phe Ile Gln Ala Asn Phe Lys Lys Arg Glu Cys Val Phe Phe
 35 40 45
 Thr Lys Asp Ser Lys Ala Thr Glu Asn Val Cys Lys Cys Gly Tyr Ala
 50 55 60
 Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp
 65 70 75 80
 Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp
 85 90 95
 Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser
 100 105 110
 Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp
 115 120 125
 His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys
 130 135 140
 Asn Phe Ala Leu Lys Pro Arg Met Arg Lys Ile Phe Ser Arg Leu Ile
 145 150 155 160
 Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His
 165 170 175
 Tyr Gly Leu Met Lys Tyr Ile Gly Glu Val Val Arg Asp Asn Thr Ile
 180 185 190
 Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp
 195 200 205
 Gly Met Val Ser Asn Arg Asp Thr Leu Ile Arg Asn Cys Asp Ala Glu
 210 215 220
 Gly Tyr Phe Leu Ala Gln Tyr Leu Met Asp Asp Phe Thr Arg Asp Pro
 225 230 235 240
 Leu Tyr Ile Leu Asp Asn Asn His Thr His Leu Leu Leu Val Asp Asn
 245 250 255

Gly	Cys	His	Gly	His	Pro	Thr	Val	Glu	Ala	Lys	Leu	Arg	Asn	Gln	Leu	
			260					265					270			
Glu	Lys	Tyr	Ile	Ser	Glu	Arg	Thr	Ile	Gln	Asp	Ser	Asn	Tyr	Gly	Gly	
		275					280					285				
Lys	Ile	Pro	Ile	Val	Cys	Phe	Ala	Gln	Gly	Gly	Gly	Lys	Glu	Thr	Leu	
	290					295					300					
Lys	Ala	Ile	Asn	Thr	Ser	Ile	Lys	Asn	Lys	Ile	Pro	Cys	Val	Val	Val	
305					310					315					320	
Glu	Gly	Ser	Gly	Gln	Ile	Ala	Asp	Val	Ile	Ala	Ser	Leu	Val	Glu	Val	
				325					330					335		
Glu	Asp	Ala	Leu	Thr	Ser	Ser	Ala	Val	Lys	Glu	Lys	Leu	Val	Arg	Phe	
			340					345					350			
Leu	Pro	Arg	Thr	Val	Ser	Arg	Leu	Pro	Glu	Glu	Glu	Thr	Glu	Ser	Trp	
		355					360					365				
Ile	Lys	Trp	Leu	Lys	Glu	Ile	Leu	Glu	Cys	Ser	His	Leu	Leu	Thr	Val	
	370					375					380					
Ile	Lys	Met	Glu	Glu	Ala	Gly	Asp	Glu	Ile	Val	Ser	Asn	Ala	Ile	Ser	
385					390					395					400	
Tyr	Ala	Leu	Tyr	Lys	Ala	Phe	Ser	Thr	Ser	Glu	Gln	Asp	Lys	Asp	Asn	
				405					410					415		
Trp	Asn	Gly	Gln	Leu	Lys	Leu	Leu	Leu	Glu	Trp	Asn	Gln	Leu	Asp	Leu	
			420					425					430			
Ala	Asn	Asp	Glu	Ile	Phe	Thr	Asn	Asp	Arg	Arg	Trp	Glu	Ser	Ala	Asp	
		435					440					445				
Leu	Gln	Glu	Val	Met	Phe	Thr	Ala	Leu	Ile	Lys	Asp	Arg	Pro	Lys	Phe	
	450					455					460					
Val	Arg	Leu	Phe	Leu	Glu	Asn	Gly	Leu	Asn	Leu	Arg	Lys	Phe	Leu	Thr	
465					470					475					480	
His	Asp	Val	Leu	Thr	Glu	Leu	Phe	Ser	Asn	His	Phe	Ser	Thr	Leu	Val	
				485					490					495		
Tyr	Arg	Asn	Leu	Gln	Ile	Ala	Lys	Asn	Ser	Tyr	Asn	Asp	Ala	Leu	Leu	
			500					505					510			
Thr	Phe	Val	Trp	Lys	Leu	Val	Ala	Asn	Phe	Arg	Arg	Gly	Phe	Arg	Lys	
		515					520					525				
Glu	Asp	Arg	Asn	Gly	Arg	Asp	Glu	Met	Asp	Ile	Glu	Leu	His	Asp	Val	
	530					535					540					

Ser Pro Ile Thr Arg His Pro Leu Gln Ala Leu Phe Ile Trp Ala Ile
545 550 555 560

Leu Gln Asn Lys Lys Glu Leu Ser Lys Val Ile Trp Glu Gln Thr Arg
565 570 575

Gly Cys Thr Leu Ala Ala Leu Gly Ala Ser Lys Leu Leu Lys Thr Leu
580 585 590

Ala Lys Val Lys Asn Asp Ile Asn Ala Ala Gly Glu Ser Glu Glu Leu
595 600 605

Ala Asn Glu Tyr Glu Thr Arg Ala Val Glu Leu Phe Thr Glu Cys Tyr
610 615 620

Ser Ser Asp Glu Asp Leu Ala Glu Gln Leu Leu Val Tyr Ser Cys Glu
625 630 635 640

Ala Trp Gly Gly Leu Glu His His His His His His
645 650

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<211> 132

<212> PRT

<213> Homo sapien

<400> 819

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20 25 30
Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly
35 40 45
Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val
50 55 60
Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val
65 70 75 80
Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala
85 90 95
Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp
100 105 110
Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu
115 120 125
Gly Pro Pro Ala
130

<210> 820

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 820

ggggaattca tgatccggga gaaatttgcc cactgc

36

<210> 821

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 821

gggctcgagt caggagtttg agaccagcct ggc

33

<210> 822

<211> 675

<212> DNA

<213> Homo sapiens

<400> 822

atgcatcacc	atcaccatca	cacggccgcg	tccgataact	tccagctgtc	ccaggggtggg	60
cagggattcg	ccattccgat	cgggcaggcg	atggcgatcg	ogggccagat	caagcttccc	120
accgttcata	tcgggcctac	cgccttcctc	ggcttggtg	ttgtcgacaa	caacggcaac	180
ggcgacgag	tccaacgcgt	ggtcgggagc	gctccggcgg	caagtctcgg	catctccacc	240
ggcgacgtga	tcaccgcggt	cgacggcgct	ccgatcaact	cggccaccgc	gatggcggac	300
gcgcttaacg	ggcatcatcc	cggtgacgtc	atctcggtga	cctggcaaac	caagtcgggc	360
ggcacgcgta	cagggaaacgt	gacattggcc	gagggagcccc	cggccgaatt	catgatccgg	420
gagaaatttg	cccactgcac	cgtgctaacc	attgcacaca	gattgaacac	cattattgac	480
agcgacaaga	taatggtttt	agattcagga	agactgaaag	aatatgatga	gccgtatggt	540
ttgctgcaaa	ataaagagag	cctattttac	aagatggtgc	aacaactggg	caaggcagaa	600
gccgctgccc	tactgaaac	agcaaaacag	agatgggggt	tcaccatggt	ggccaggctg	660
gtctcaaaact	cctga					675

<210> 823

<211> 291

<212> DNA

<213> Homo sapiens

<400> 823

atggggatcc	gggagaaatt	tgccactgc	accgtgctaa	ccattgcaca	cagattgaac	60
accattattg	acagcgacaa	gataatggtt	ttagattcag	gaagactgaa	agaatatgat	120
gagccgtatg	ttttgctgca	aaataaagag	agcctatgtt	acaagatggt	gcaacaactg	180
ggcaaggcag	aagccgctgc	cctcactgaa	acagcaaaac	agagatgggg	tttcaccatg	240
ttggccaggc	tggtctcaaa	ctccctcgag	caccaccacc	accaccactg	a	291

<210> 824

Leu Ala Glu Gly Pro Pro Ala Glu Phe Met Ile Arg Glu Lys Phe Ala
 130 135 140
 His Cys Thr Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp
 145 150 155 160
 Ser Asp Lys Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp
 165 170 175
 Glu Pro Tyr Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met
 180 185 190
 Val Gln Gln Leu Gly Lys Ala Glu Ala Ala Ala Leu Thr Glu Thr Ala
 195 200 205
 Lys Gln Arg Trp Gly Phe Thr Met Leu Ala Arg Leu Val Ser Asn Ser
 210 215 220

<210> 826
 <211> 357
 <212> PRT
 <213> Homo sapiens

<400> 826
 Met Ser Ala Ile Glu Arg Val Ser Glu Ala Ile Val Ser Ile Arg Arg
 5 10 15
 Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile Ser Gln Arg Asn Arg Gln
 20 25 30
 Leu Pro Ser Asp Gly Lys Lys Met Val His Val Gln Asp Phe Thr Ala
 35 40 45
 Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr Leu Gln Gly Leu Ser Phe
 50 55 60
 Thr Val Arg Pro Gly Glu Leu Leu Ala Val Val Gly Pro Val Gly Ala
 65 70 75 80
 Gly Lys Ser Ser Leu Leu Ser Ala Val Leu Gly Glu Leu Ala Pro Ser
 85 90 95
 His Gly Leu Val Ser Val His Gly Arg Ile Ala Tyr Val Ser Gln Gln
 100 105 110
 Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly Lys
 115 120 125
 Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val Ile Lys Ala Cys Ala Leu
 130 135 140

Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly Asp Leu Thr Val Ile Gly
 145 150 155 160
 Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln Lys Ala Arg Val Asn Leu
 165 170 175
 Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile Tyr Leu Leu Asp Asp Pro
 180 185 190
 Leu Ser Ala Val Asp Ala Glu Val Ser Arg His Leu Phe Glu Leu Cys
 195 200 205
 Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val Thr His Gln
 210 215 220
 Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile Leu Ile Leu Lys Asp Gly
 225 230 235 240
 Lys Met Val Gln Lys Gly Thr Tyr Thr Glu Phe Leu Lys Ser Gly Ile
 245 250 255
 Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn Glu Glu Ser Glu Gln Pro
 260 265 270
 Pro Val Pro Gly Thr Pro Thr Leu Arg Asn Arg Thr Phe Ser Glu Ser
 275 280 285
 Ser Val Trp Ser Gln Gln Ser Ser Arg Pro Ser Leu Lys Asp Gly Ala
 290 295 300
 Leu Glu Ser Gln Asp Thr Glu Asn Val Pro Val Thr Leu Ser Glu Glu
 305 310 315 320
 Asn Arg Ser Glu Gly Lys Val Gly Phe Gln Ala Tyr Lys Asn Tyr Phe
 325 330 335
 Arg Ala Gly Ala His Trp Ile Val Phe Ile Phe Leu Ile Leu Glu His
 340 345 350
 His His His His His
 355

<210> 827

<211> 96

<212> PRT

<213> Homo sapiens

<400> 827

Met Gly Ile Arg Glu Lys Phe Ala His Cys Thr Val Leu Thr Ile Ala
 5 10 15

His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys Ile Met Val Leu Asp

20 25 30
 Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr Val Leu Leu Gln Asn
 35 40 45
 Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln Leu Gly Lys Ala Glu
 50 55 60
 Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg Trp Gly Phe Thr Met
 65 70 75 80
 Leu Ala Arg Leu Val Ser Asn Ser Leu Glu His His His His His His
 85 90 95

<210> 828
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 828
 cgcccatggg gatccgggag aaatttgccc actgc 35

<210> 829
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 829
 cgctcgagg gagtttgaga ccagcctggc caaca 35

<210> 830
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 830
 gcatggacca tatgtcagcc attgagaggg tgtcagag 38

<210> 831
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>

<223> PCR primer

<400> 831

ccgctcgaga ataaggaaaa tgaagacaat ccag

34

<210> 832

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 832

gttgaattca tgcacggggc ccaggtg

27

<210> 833

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 833

ccccctcgagt cactatgggtc tgcctcttga

30

<210> 834

<211> 915

<212> DNA

<213> Homo sapiens

<400> 834

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atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtggg 60
cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
ggcgacacgag tccaacgcgt ggtcggggagc gtcgggcggg caagtctcgg catctccacc 240
ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
gcgcttaacg ggcacatcatc cggtgacgtc atctcggtga cctggcaaac caagtggggc 360
ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt catgcacggg 420
ccccaggtgc tggcacgctg ctccgagtggt gcttgtcctg ccttggctgc cacctctgcg 480
ggggtgcgtc tggaggggggt ggaccggcca ccaaccttac ccagtcaagg aagtggatgg 540
ccatgttccc acagcctgag tggctgccac ctgatggctg atggagcaaa ggccttagga 600
aaagcagatg gcccttggcc ctaccttttt gttagaagaa ctgatgttcc atgtcctgca 660
gcgagtgagg ttggtggctg tgccccagc tcctggcgcg ccctcgcaga ggtgactggg 720
tgctcttttg gccctcttgg ccttgcccag catgcacaag cctcagtgtc actactgtgc 780
tacaaatgga gccatatagg ggaaacgagc agccatctca ggagcaagg gtatgtgtgc 840
tttggggggt ccagtccttg cctcaagggt cttatgtcac tgtgggcttc ttggttgtca 900
agaggcagac catag                                     915

```

<400>	835															
Met	His	His	His	His	His	His	Thr	Ala	Ala	Ser	Asp	Asn	Phe	Gln	Leu	
				5					10					15		
Ser	Gln	Gly	Gly	Gln	Gly	Phe	Ala	Ile	Pro	Ile	Gly	Gln	Ala	Met	Ala	
			20					25					30			
Ile	Ala	Gly	Gln	Ile	Lys	Leu	Pro	Thr	Val	His	Ile	Gly	Pro	Thr	Ala	
		35					40					45				
Phe	Leu	Gly	Leu	Gly	Val	Val	Asp	Asn	Asn	Gly	Asn	Gly	Ala	Arg	Val	
	50					55					60					
Gln	Arg	Val	Val	Gly	Ser	Ala	Pro	Ala	Ala	Ser	Leu	Gly	Ile	Ser	Thr	
65					70					75					80	
Gly	Asp	Val	Ile	Thr	Ala	Val	Asp	Gly	Ala	Pro	Ile	Asn	Ser	Ala	Thr	
				85					90					95		
Ala	Met	Ala	Asp	Ala	Leu	Asn	Gly	His	His	Pro	Gly	Asp	Val	Ile	Ser	
			100					105					110			
Val	Thr	Trp	Gln	Thr	Lys	Ser	Gly	Gly	Thr	Arg	Thr	Gly	Asn	Val	Thr	
		115					120					125				
Leu	Ala	Glu	Gly	Pro	Pro	Ala	Glu	Phe	Met	His	Gly	Pro	Gln	Val	Leu	
	130					135					140					
Ala	Arg	Cys	Ser	Glu	Cys	Ala	Cys	Pro	Ala	Leu	Ala	Ala	Thr	Ser	Ala	
145					150					155					160	
Gly	Val	Arg	Leu	Glu	Gly	Val	Asp	Arg	Pro	Pro	Thr	Leu	Pro	Ser	Gln	
				165					170					175		
Gly	Ser	Gly	Trp	Pro	Cys	Ser	His	Ser	Leu	Ser	Gly	Cys	His	Leu	Met	
			180					185					190			
Ala	Asp	Gly	Ala	Lys	Ala	Leu	Gly	Lys	Ala	Asp	Gly	Pro	Trp	Pro	Tyr	
		195					200					205				
Leu	Phe	Val	Arg	Arg	Thr	Asp	Val	Pro	Cys	Pro	Ala	Ala	Ser	Glu	Val	
	210					215					220					
Gly	Gly	Cys	Ala	Pro	Ser	Ser	Trp	Arg	Ala	Leu	Ala	Glu	Val	Thr	Gly	
225					230					235					240	
Cys	Ser	Leu	Gly	Pro	Leu	Gly	Leu	Ala	Gln	His	Ala	Gln	Ala	Ser	Val	
				245					250					255		

<400> 838															
Met	Gly	His	His	His	His	His	His	Val	Glu	Ala	Ser	Leu	Ser	Val	Arg
1				5					10					15	
His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu	Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile
			20					25					30		
Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu	Ser	Asp	Thr	Ile	Arg	Ser	Ile	Ser
		35					40					45			
Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala	Gly	Asn	Ser	Cys	Leu	Val	Ser	Gly

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<210> 839
<211> 504
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<222> (1)...(504)
<223> n = A,T,C or G
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[illegible]

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<210> 840
<211> 21
<212> DNA
<213> Artificial Sequence
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<220>
<223> PCR primer

<400> 840
ctcagggttc cggagccgcg g 21

```
<210> 841
<211> 35
<212> DNA
<213> Artificial Sequence
```

<220>

<223> PCR primer

<400> 841

ctatagaatt cattaccaaa aagctgggct ccagc

35

<210> 842

<211> 241

<212> PRT

<213> Homo sapiens

<400> 842

```

Met Gln His His His His His Leu Arg Val Pro Glu Pro Arg Pro
 1           5           10           15
Gly Glu Ala Lys Ala Glu Gly Ala Ala Pro Pro Thr Pro Ser Lys Pro
      20           25           30
Leu Thr Ser Phe Leu Ile Gln Asp Ile Leu Arg Asp Gly Ala Gln Arg
      35           40           45
Gln Gly Gly Arg Thr Ser Ser Gln Arg Gln Arg Asp Pro Glu Pro Glu
      50           55           60
Pro Glu Pro Glu Pro Glu Gly Gly Arg Ser Arg Ala Gly Ala Gln Asn
      65           70           75           80
Asp Gln Leu Ser Thr Gly Pro Arg Ala Ala Pro Glu Glu Ala Glu Thr
      85           90           95
Leu Ala Glu Thr Glu Pro Glu Arg His Leu Gly Ser Tyr Leu Leu Asp
      100          105          110
Ser Glu Asn Thr Ser Gly Ala Leu Pro Arg Leu Pro Gln Thr Pro Lys
      115          120          125
Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln Val Ile
      130          135          140
Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala Pro Glu
      145          150          155          160
Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln Val Lys
      165          170          175
Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln Leu Ser
      180          185          190
Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala Leu Lys
      195          200          205
Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn Ser Tyr
      210          215          220
Pro Tyr Tyr Pro Tyr Leu Tyr Cys Val Gly Ser Trp Ser Pro Ala Phe
      225          230          235          240
Trp

```

<210> 843

<211> 729

<212> DNA

<213> Homo sapiens

<400> 843

```

atgcagcatc accaccatca ccacctcagg gttccggagc cgcgggcccg ggaggcgaaa
gcggaggggg ccgcgcgcgc gaccccgctc aagccgctca cgtccttcct catccaggac

```

60
120

```

atcctgcggg acggcgcgca gcggaaggc ggccgcacga gcagccagag acagcgcgac 180
cggagccgg agccagagcc agagccagag ggaggacgca gccgcgccgg ggcgcagaac 240
gaccagctga gcaccgggcc ccgcgccgcg ccggatgagg ccgagacgct ggcagagacc 300
gagccagaaa ggcacttggg gtcttatctg ttggactctg aaaacacttc aggcgccctt 360
ccaaggcttc cccaaacccc taagcagccg cagaagcgct cccgagctgc cttctcccac 420
actcaggtga tcgagttgga gaggaagttc agccatcaga agtacctgtc ggcccctgaa 480
cgggccacc tggccaagaa cctcaagctc acggagaccc aagtgaagat atggttccag 540
aacagacgct ataagactaa gcgaaagcag ctctcctcgg agctgggaga cttggagaag 600
cactcctttt tgccggccct gaaagaggag gccttctccc gggcctccct ggtctccgtg 660
tataacagct atccttacta cccatacctg cactgcgtgg gcagctggag cccagctttt 720
tggtaatga 729

```

<210> 844
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 844
 ctactaagcg ctggagtgag ggatcag

27

<210> 845
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 845
 catcgagaat tcactactct ctgactagat gtc

33

<210> 846
 <211> 161
 <212> PRT
 <213> Homo sapiens

<400> 846
 Met Gln His His His His His Ala Gly Val Arg Asp Gln Gly Gln
 1 5 10 15
 Gly Ala Arg Trp Pro His Thr Gly Lys Arg Gly Pro Leu Leu Gln Gly
 20 25 30
 Leu Thr Trp Ala Thr Gly Gly His Cys Phe Ser Ser Glu Glu Ser Gly
 35 40 45
 Ala Val Asp Gly Ala Gly Gln Lys Lys Asp Arg Ala Trp Leu Arg Cys
 50 55 60
 Pro Glu Ala Val Ala Gly Phe Pro Leu Gly Ser Asp Cys Arg Glu Gly
 65 70 75 80
 Gly Arg Gln Gly Cys Gly Gly Ser Asp Asp Glu Asp Asp Leu Gly Val

				85					90					95					
Ala	Pro	Gly	Leu	Ala	Pro	Ala	Trp	Ala	Leu	Thr	Gln	Pro	Pro	Ser	Gln				
			100					105					110						
Ser	Pro	Gly	Pro	Gln	Ser	Leu	Pro	Ser	Thr	Pro	Ser	Ser	Ile	Trp	Pro				
		115					120					125							
Gln	Trp	Val	Ile	Leu	Ile	Thr	Glu	Leu	Thr	Ile	Pro	Ser	Pro	Ala	His				
		130				135					140								
Gly	Pro	Pro	Trp	Leu	Pro	Asn	Ala	Leu	Glu	Arg	Gly	His	Leu	Val	Arg				
145					150					155					160				
Glu																			

<210> 847
 <211> 489
 <212> DNA
 <213> Homo sapiens

<400> 847
 atgcagcatc accaccatca ccacgctgga gtgagggatc aggggcaggg cgcgagatgg 60
 cctcacacag ggaagagagg gcccctcctg cagggcctca cctgggccac aggaggacac 120
 tgettttccct ctgaggagtc aggagctgtg gatggtgctg gacagaagaa ggacagggcc 180
 tggctcaggt gtccagaggc tgtcgtggtg ttccctttgg gatcagactg cagggagggga 240
 gggcggcagg gttgtggggg gagtgacgat gaggatgacc tgggggtggc tccaggcctt 300
 gcccctgcct gggccctcac ccagcctccc tcacagtctc ctggccctca gtctctcccc 360
 tccactccat cctccatctg gcctcagtgg gtcattctga tcaactgaact gaccataccc 420
 agccctgccc acggccctcc atggctcccc aatgccctgg agaggggaca tctagtcaga 480
 gagtagtga 489

<210> 848
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 848
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
 1 5 10 15
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser
 20 25 30
 Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly
 35 40 45
 Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val
 50 55 60
 Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val
 65 70 75 80
 Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala
 85 90 95
 Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp
 100 105 110
 Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu
 115 120 125
 Gly Pro Pro Ala
 130

<210> 849
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 849
 ggggaattca tcacctatgt gccgcctctg c 31

<210> 850
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 850
 gggctcgagt cactcgccca cgaaatccgt gtaaaacagc 40

<210> 851
 <211> 1203
 <212> DNA
 <213> Homo sapiens

<400> 851
 atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccagggtggg 60
 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
 accgttcata tcgggcctac cgccttcctc ggcttggttg ttgtcgacaa caacggcaac 180
 ggcgacagag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
 gcgcttaacg ggcacatcc cggtgacgtc atctcgggtga cctggcaaac caagtcgggc 360
 ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt catcacctat 420
 gtgcgcgctc tgctgctgga agtgggggta gaggagaagt tcatgaccat ggtgctgggc 480
 attgggtccag tgctgggcct ggtctgtgtc ccgctcctag gctcagccag tgaccactgg 540
 cgtggacgct atggccgcgc cgggcccttc atctgggcac tgtccttggg catcctgctg 600
 agcctctttc tcatcccaag ggccggctgg ctagcagggc tgctgtgccc ggatcccagg 660
 cccctggagc tggcactgct catcctgggc gtggggctgc tggacttctg tggccagggtg 720
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 caggcctaact ctgtctatgc cttcatgata agtcttgggg gctgcctggg ctacctcctg 840
 cctgccattg actgggacac cagtgccttg gccccctacc tgggcacca ggaggagtgc 900
 ctctttggcc tgctcaccct catcttcctc acctgcgtag cagccacact gctggtggct 960
 gaggaggcag cgtcgggccc caccgagcca gcagaagggc tgtcggcccc ctcttgtctg 1020
 cccactgct gtccatgccg ggcccgttg gctttccgga acctgggcgc cctgcttccc 1080
 cggtgcacc agctgtgctg ccgatgccc cgcaccctgc gccggtctt cgtggctgag 1140
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 tga 1203

<210> 852

<211> 400
 <212> PRT
 <213> Homo sapiens

<400> 852

```

Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
              5                      10                      15

Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
              20                      25                      30

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
              35                      40                      45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
              50                      55                      60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
              65                      70                      75                      80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
              85                      90                      95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
              100                      105                      110

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
              115                      120                      125

Leu Ala Glu Gly Pro Pro Ala Glu Phe Ile Thr Tyr Val Pro Pro Leu
              130                      135                      140

Leu Leu Glu Val Gly Val Glu Glu Lys Phe Met Thr Met Val Leu Gly
              145                      150                      155                      160

Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala
              165                      170                      175

Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp
              180                      185                      190

Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala
              195                      200                      205

Gly Trp Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu
              210                      215                      220

Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val
              225                      230                      235                      240

Cys Phe Thr Pro Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro
              245                      250                      255

Asp His Cys Arg Gln Ala Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu

```

260	265	270
Gly Gly Cys Leu Gly Tyr Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser		
275	280	285
Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu		
290	295	300
Leu Thr Leu Ile Phe Leu Thr Cys Val Ala Ala Thr Leu Leu Val Ala		
305	310	315
Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala		
325	330	335
Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe		
340	345	350
Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg		
355	360	365
Met Pro Arg Thr Leu Arg Arg Leu Phe Val Ala Glu Leu Cys Ser Trp		
370	375	380
Met Ala Leu Met Thr Phe Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu		
385	390	395
		400

<210> 853

<211> 20

<212> PRT

<213> Homo sapiens

<400> 853

Leu	Leu	Pro	Pro	Pro	Pro	Ala	Leu	Cys	Gly	Ala	Ser	Ala	Cys	Asp	Val
				5					10					15	

Ser	Val	Arg	Val
			20

<210> 854

<211> 60

<212> DNA

<213> Homo sapiens

<400> 854

ctgctccac ctccacccgc gctctgcggg gcctctgcct gtgatgtctc cgtacgtgtg 60

<210> 855

<211> 10

<212> PRT

<213> Homo sapiens

<400> 855

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<210> 858
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Ala Ser Asp

<210> 861
 <211> 19

<212> PRT
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 <212> PRT
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<400> 862
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 <212> DNA
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<213> Homo sapiens

<400> 867

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<213> Homo sapiens

<400> 868

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<400> 869

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<400> 870

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<400> 875
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<400> 877
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<210> 879
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 <212> PRT
 <213> Homo sapiens

<400> 879
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 20 25 30
 Gly Glu Thr Ser Met Leu Lys Arg Pro Val Leu Leu His Leu His Gln
 35 40 45

Thr	Ala	His	Ala	Asp	Glu	Phe	Asp	Cys	Pro	Ser	Glu	Leu	Gln	His	Thr
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65					70					75					
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Pro	Leu	Ala	Thr	Ser	His	Gln	Gln	Tyr	Phe	Tyr	Lys	Ile	Pro	Ile	Leu
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Lys	Ser	Ile	Leu	Phe	Leu	Pro	Cys	Leu	Arg	Lys	Lys	Ile	Leu	Lys	Ile
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Ser Gln Leu

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 <212> DNA
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 ccatttttagt actatgggtg agtacatgga attgaagtct ggcttaaadc ttcagaaagt 180
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 tgcctcggcc tcctgagtag ctgggactac aggcgtgcac caccacatct ggctaattctt 360
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 ggtaatttat aaagaaaaga ggtttaatga ctacacagttc cgcattggctg gagaggcctc 540
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<210> 881
 <211> 2455
 <212> DNA
 <213> Homo sapiens

<400> 881

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<210> 882

<211> 2455

<212> DNA

<213> Homo sapiens

<400> 882

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<210> 883

<211> 62

<212> PRT

<213> Homo sapiens

<400> 883

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                20              25             30

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Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu
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Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala
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 <211> 135
 <212> PRT
 <213> Homo sapiens

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 35 40 45
 Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu
 50 55 60
 Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala
 65 70 75 80
 Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly
 85 90 95
 Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro
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 Leu Leu Asn Tyr Gln Val Ser
 130 135

<210> 885
 <211> 77
 <212> PRT
 <213> Homo sapiens

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75

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<400> 886
Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly
                    5                                10                    15

Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
                    20                                25                    30

Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
                    35                                40                    45

Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
    50                                55                    60

```

```
<400> 887
Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
      5                                10                          15

Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
      20                               25                            30

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
      35                              40                          45

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
      50                             55                           60

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
     65                               70                        75
```

<400> 888
Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp
5 10 15
Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu
20 25 30

Gly Pro Pro Ser Pro Ser Met Val
65 70

<210> 891
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 891
 Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro Ile Ile Gln
 5 10 15
 Ser Pro Pro Thr Arg Ser Pro Pro Thr Arg Gly Ile Gly Trp Gly His
 20 25 30
 Arg Ala Lys Pro Tyr Gln Met Leu Gln Gly Leu Gly Thr Leu Arg Pro
 35 40 45
 Leu Arg Pro Gly Val Ser Val Thr Leu Leu Gly Ser Val Cys Leu Gln
 50 55 60
 Asp Leu Pro Pro Leu Pro Trp Tyr Arg Arg Lys Val Leu
 65 70 75

<210> 892
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 892
 Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly
 5 10 15
 Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
 20 25 30
 Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
 35 40 45
 Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
 50 55 60

<210> 893
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 893
 Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
 5 10 15
 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
 20 25 30

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
 35 40 45

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
 50 55 60

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
 65 70 75

<210> 894
 <211> 2479
 <212> DNA
 <213> Homo sapiens

<400> 894

gtcatattga	acattccaga	tacctatcat	tactcgatgc	tgttgataac	agcaagatgg	60
ctttgaactc	agggtcacca	ccagctattg	gaccttacta	tgaaaacccat	ggataccaac	120
cggaaaaccc	ctatcccgcg	cagcccactg	tggtcccccac	tgtctacgag	gtgcatccgg	180
ctcagtacta	cccgcccccc	gtgccccagt	acgccccgag	ggctcctgacg	caggcttcca	240
accccgctgt	ctgcacgcag	cccaaattcc	catccggggac	agtgtgcacc	tcaaagacta	300
agaaagcact	gtgcatcacc	ttgacctgtg	ggaccttcct	cgtgggagct	gcgctggccg	360
ctggcctact	ctggaagtgc	atgggcagca	agtgtctcaa	ctctgggata	gagtgcgact	420
cctcaggtac	ctgcatcaac	ccctctaact	ggtgtgatgg	cgtgtcacac	tgccccggcg	480
gggaggacga	gaatcggtgt	gttcgcctct	acggacccaa	cttcacacct	cagatgtact	540
catctcagag	gaatgcctgt	cacctgtgtg	gccaagacga	ctggaacgag	aactacgggc	600
gggcgccctg	cagggacatg	ggctataaga	ataattttta	ctctagccaa	ggaatagtgg	660
atgacagcgg	atccaccagc	tttatgaaac	tgaacacaag	tgccggcaat	gtcgatatct	720
ataaaaaact	gtaccacagt	gatgcctgtt	cttcaaaagc	agtggtttct	ttacgctgtt	780
tagcctgagg	ggtcaacttg	aactcaagcc	gccagagcag	gatcgtgggc	ggtgagagcg	840
cgctcccggg	ggcctggccc	tggcaggtca	gcctgcacgt	ccagaacgtc	cacgtgtgcg	900
gaggctccat	catcaccccc	gagtggtatg	tgacagccgc	ccactgcgtg	gaaaaacctc	960
ttaacaatcc	atggcatttg	acggcatttg	cggggatttt	gagacaatct	ttcatgttct	1020
atggagccgg	ataccaagta	caaaaagtga	tttctcatcc	aaattatgac	tccaagacca	1080
agaacaatga	cattgcgctg	atgaagctgc	agaagcctct	gaactttcaac	gacctagtga	1140
aaccagtgtg	tctgcccac	ccaggcatga	tgtctgcagc	agaacagctc	tgctggattt	1200
ccgggtgggg	ggccaccgag	gagaaaggga	agacctcaga	agtgtctaac	gctgccaagg	1260
tgtttctcat	tgagacacag	agatgcaaca	gcagatatgt	ctatgacaac	ctgatcacac	1320
cagccatgat	ctgtgccggc	ttcctgcagg	ggaacgtcga	ttcttgccag	ggtgacagtg	1380
gagggcctct	ggtcacttcg	aacaacaata	tctggtggct	gataggggat	acaagctggg	1440
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actggattta	tcgacaaatg	aaggcaaacg	gctaattccac	atgggtcttcg	tccttgacgt	1560
cgtttttaca	gaaaacaatg	gggctggttt	tgcttccccg	tgcattgattt	actcttagag	1620
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tgccatactg	tgcaggctgc	agtggctccc	ctgcccagcc	tgtcttccct	aaccttcttg	1740
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ggttgagggt	gccccatttg	agatcttctc	ggtgagtcct	ttccaggggc	caatttttga	1860
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ggaaaggagg	acagccaggt	ggcacctgca	gcggctgccc	tctggggcca	cttggtagtg	1980
tccccagcct	acttcacaag	gggattttgc	tgatgggttc	ttagagcctt	agcagccctg	2040
gatggtggcc	agaaataaag	ggaccagccc	ttcatgggtg	gtgacgtggt	agtcacttgt	2100
aagggaagca	gaaacatttt	tgttcttatg	gggtgagaat	atagacagtg	cccttggtgc	2160
gagggaagca	attgaaaagg	aacttgccct	gagcactcct	ggtgcaggtc	tccacctgca	2220
cattgggtgg	ggctcctggg	agggagactc	agccttcctc	ctcatcctcc	ctgacctgca	2280

```

tcttagcacc ctggagagtg aatgccctt ggtccctggc agggcgccaa gtttggcacc 2340
atgtcggcct cttcaggcct gatagtcatt ggaaattgag gtccatgggg gaaatcaagg 2400
atgtcagtt taaggtacac tgtttccatg ttatgtttct acacattgat ggtggtgacc 2460
ctgagttcaa agccatctt                                     2479

```

<210> 895

<211> 492

<212> PRT

<213> Homo sapiens

<400> 895

```

Met Ala Leu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu
              5              10              15

```

```

Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
              20              25              30

```

```

Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
              35              40              45

```

```

Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
              50              55              60

```

```

Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
              65              70              75              80

```

```

Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
              85              90              95

```

```

Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys
              100              105              110

```

```

Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn
              115              120              125

```

```

Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp
              130              135              140

```

```

Glu Asn Arg Cys Val Arg Leu Tyr Gly Pro Asn Phe Ile Leu Gln Met
              145              150              155              160

```

```

Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp
              165              170              175

```

```

Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn
              180              185              190

```

```

Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser
              195              200              205

```

```

Phe Met Lys Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys
              210              215              220

```

```

Leu Tyr His Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg

```

225 230 235 240
 Cys Leu Ala Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile
 245 250 255
 Val Gly Gly Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser
 260 265 270
 Leu His Val Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro
 275 280 285
 Glu Trp Ile Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn Asn
 290 295 300
 Pro Trp His Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met
 305 310 315 320
 Phe Tyr Gly Ala Gly Tyr Gln Val Gln Lys Val Ile Ser His Pro Asn
 325 330 335
 Tyr Asp Ser Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln
 340 345 350
 Lys Pro Leu Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn
 355 360 365
 Pro Gly Met Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp
 370 375 380
 Gly Ala Thr Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala
 385 390 395 400
 Lys Val Leu Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr
 405 410 415
 Asp Asn Leu Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly
 420 425 430
 Asn Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser
 435 440 445
 Asn Asn Asn Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly
 450 455 460
 Cys Ala Lys Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe
 465 470 475 480
 Thr Asp Trp Ile Tyr Arg Gln Met Lys Ala Asn Gly
 485 490

<210> 896

<211> 683

<212> DNA

<213> Homo sapiens

<400> 896

```

gtcatattga acattccaga tacctatcat tactcgatgc tgttgataac agcaagatgg 60
ctttgaactc agggtcacca ccagctattg gaccttacta tgaaaaccat ggataccaac 120
cgaaaaacc cttatcccgca cagcccactg tgggtcccccac tgtctacgag gtgcatccgg 180
ctcagtacta ccogtcccc gtgccccagt acgccccgag ggtcctgacg caggcttcca 240
accccgctcg ctgcacgcag cccaaatccc catccgggac agtgtgcacc tcaaagacta 300
agaaagcact gtgcatcacc ttgaccttg ggaccttcc ctgtgggagct gcgctggccg 360
ctggcctact ctggaagtgc atgggcagca agtgcctcaa ctctgggata gagtgcgact 420
cctcaggtac ctgcatcaac ccctctaact ggtgtgatgg cgtgtcacac tgccccggcg 480
gggaggacga gaatcggtgt gttcgctct acggaccaa cttcatcctt cagatgtact 540
catctcagag gaagtcctgg caccctgtgt gccaaagacga ctggaacgag aactacgggc 600
gggcggcctg cagggacatg ggctataaga ataattttta ctctagccaa ggaatagtgg 660
atgacagcgg atccaccagc ttt                                     683

```

<210> 897

<211> 209

<212> PRT

<213> Homo sapiens

<400> 897

```

Met Ala Leu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu
1      5      10      15
Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
20     25     30
Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
35     40     45
Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
50     55     60
Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
65     70     75     80
Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
85     90     95
Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys
100    105    110
Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn
115    120    125
Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp
130    135    140
Glu Asn Arg Cys Val Arg Leu Tyr Gly Pro Asn Phe Ile Leu Gln Met
145    150    155    160
Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp
165    170    175
Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn
180    185    190
Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser
195    200    205
Phe

```

<210> 898
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 898
 Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr
 1 5 10 15
 Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg
 20 25

<210> 899
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 899
 ggatccgccg ccaccatgtc actttctagc ctgct

35

<210> 900
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 900
 gtcgactcag ctggaccaca gccgcag

27

<210> 901
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 901
 ggatccgccg ccaccatggg ctgcaggctg ctct

34

<210> 902
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 902
gtcgactcag aaatcctttc tcttgac

27

<210> 903
<211> 936
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...()
<223> n = A,T,C or G

<400> 903
atgggctgca ggctgntctg ctgtgcgggt ctctgtctcc tgggagcggg ccccatggaa 60
acgggagtta cgcagacacc aagacacctg gtcatgggaa tgacaaataa gaagtctttg 120
aaatgtgaac aacatctggg tcataacgct atgtattggg acaagcaaag tgctaagaag 180
ccactggagc tcatgtttgt ctacagtctt gaagaacggg ttgaaaacaa cagtgtgcca 240
agtcgcttct cacctgaatg ccccaacagc tctcacttat tccttcacct acacaccctg 300
cagccagaag actcggccct gtatctctgc gccagcagcc aagaccggac aagcagctcc 360
tacgagcagt acttcgggcc gggcaccagg ctacaggcca cagaggacct gaaaaacgtg 420
ttcccacccg aggtcgcgtg gtttgagcca tcagaagcag agatctccca caccctaaag 480
gccacactgg tgtgcctggc cacaggcttc taccocgacc acgtggagct gagctgggtg 540
gtgaatggga aggaggtgca cagtgggggtc agcacagacc cgcagccctt caaggagcag 600
cccgccctca atgactccag atactgcctg agcagccgcc tgagggtctc ggccaccttc 660
tggcagaacc cccgcaacca ctccgcgtgt caagtccagt tctacgggct ctcgagaaat 720
gacgagtgga cccaggatag ggccaaaacct gtcacccaga tcgtcagcgc cgaggcctgg 780
ggtagagcag actgtggctt cacctccgag tcttaccagc aaggggtcct gtctgccacc 840
atcctctatg agatcttgct aggggaaggcc accttgatat ccgtgctggg cagtgccctc 900
gtgctgatgg ccattggtcaa gagaaaggat ttctga 936

<210> 904
<211> 834
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...()
<223> n = A,T,C or G

<400> 904
atgtcacttt ctagcctgct naagggtggc acagcttcac tgtggctagg acctggcatt 60
gccagaaga taactcaaac ccaaccagga atgttcgtgc aggaaaagga ggctgtgact 120
ctggactgca catatgacac cagtgatcaa agttatggc tcttctggta caagcagccc 180
agcagtgggg aaatgatttt tcttatttat caggggtctt atgacgagca aaatgcaaca 240
gaaggctcgt actcattgaa tttccagaag gcaagaaaat ccgccaacct tgtcatctcc 300
gcttcacaac tgggggactc agcaatgtat ttctgtgcaa tgagagaggg cgcgaggagg 360
ggaaacaaac tcacctttgg gacaggcact cagctaaaag tggaactcaa tatccagaac 420
cctgaccctg ccgtgtacca gctgagagac tctaaatcca gtgacaagtc tgtctgccta 480
ttcacccgatt ttgattctca aacaaatgtg tcacaaagta aggattctga tgtgtatatc 540
acagacaaaa ctgtgctaga catgaggtct atggacttca agagcaacag tgctgtggcc 600
tggagcaaca aatctgactt tgcattgtga aacgccttca acaacagcat tattccagaa 660

```
<210> 905
<211> 311
<212> PRT
<213> Homo sapiens
```

```
<220>  
<221> variant  
<222> (1)...(311)  
<223> Xaa = Any amino acid
```

```
<400> 905  
Met Gly Cys Arg Leu Xaa Cys Cys Ala Val Leu Cys Leu Leu Gly Ala  
          5              10              15
```

Val Pro Met Glu Thr Gly Val Thr Gln Thr Pro Arg His Leu Val Met
20 25 30

Gly Met Thr Asn Lys Lys Ser Leu Lys Cys Glu Gln His Leu Gly His
35 40 45

Asn Ala Met Tyr Trp Tyr Lys Gln Ser Ala Lys Lys Pro Leu Glu Leu
50 55 60

Met Phe Val Tyr Ser Leu Glu Glu Arg Val Glu Asn Asn Ser Val Pro
65 70 75 80

Ser Arg Phe Ser Pro Glu Cys Pro Asn Ser Ser His Leu Phe Leu His
85 90 95

Leu His Thr Leu Gln Pro Glu Asp Ser Ala Leu Tyr Leu Cys Ala Ser
100 105 110

Ser Gln Asp Arg Thr Ser Ser Ser Tyr Glu Gln Tyr Phe Gly Pro Gly
115 120 125

Thr Arg Leu Thr Val Thr Glu Asp Leu Lys Asn Val Phe Pro Pro Glu
130 135 140

Val Ala Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys
145 150 155 160

Ala Thr Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu
165 170 175

Leu Ser Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr
180 185 190

Asp Pro Gln Pro Leu Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr
195 200 205

Cys Leu Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro
210 215 220

Arg Asn His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn
225 230 235 240

Asp Glu Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser
245 250 255

Ala Glu Ala Trp Gly Arg Ala Asp Cys Gly Phe Thr Ser Glu Ser Tyr
260 265 270

Gln Gln Gly Val Leu Ser Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly
275 280 285

Lys Ala Thr Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met Ala
290 295 300

Met Val Lys Arg Lys Asp Phe
305 310

<210> 906
<211> 277
<212> PRT
<213> Homo sapiens

<400> 906

Met Ser Leu Ser Ser Leu Leu Lys Val Val Thr Ala Ser Leu Trp Leu
5 10 15

Gly Pro Gly Ile Ala Gln Lys Ile Thr Gln Thr Gln Pro Gly Met Phe
20 25 30

Val Gln Glu Lys Glu Ala Val Thr Leu Asp Cys Thr Tyr Asp Thr Ser
35 40 45

Asp Gln Ser Tyr Gly Leu Phe Trp Tyr Lys Gln Pro Ser Ser Gly Glu
50 55 60

Met Ile Phe Leu Ile Tyr Gln Gly Ser Tyr Asp Glu Gln Asn Ala Thr
65 70 75 80

Glu Gly Arg Tyr Ser Leu Asn Phe Gln Lys Ala Arg Lys Ser Ala Asn
85 90 95

Leu Val Ile Ser Ala Ser Gln Leu Gly Asp Ser Ala Met Tyr Phe Cys
100 105 110

Ala Met Arg Glu Gly Ala Gly Gly Gly Asn Lys Leu Thr Phe Gly Thr
115 120 125

Gly Thr Gln Leu Lys Val Glu Leu Asn Ile Gln Asn Pro Asp Pro Ala
130 135 140

Val Tyr Gln Leu Arg Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu
145 150 155 160

Phe Thr Asp Phe Asp Ser Gln Thr Asn Val Ser Gln Ser Lys Asp Ser
165 170 175

Asp Val Tyr Ile Thr Asp Lys Thr Val Leu Asp Met Arg Ser Met Asp
180 185 190

Phe Lys Ser Asn Ser Ala Val Ala Trp Ser Asn Lys Ser Asp Phe Ala
195 200 205

Cys Ala Asn Ala Phe Asn Asn Ser Ile Ile Pro Glu Asp Thr Phe Phe
210 215 220

Pro Ser Pro Glu Ser Ser Cys Asp Val Lys Leu Val Glu Lys Ser Phe
225 230 235 240

Glu Thr Asp Thr Asn Leu Asn Phe Gln Asn Leu Ser Val Ile Gly Phe
245 250 255

Arg Ile Leu Leu Leu Lys Val Ala Gly Phe Asn Leu Leu Met Thr Leu
260 265 270

Arg Leu Trp Ser Ser
275

<210> 907

<211> 1536

<212> DNA

<213> Homo sapiens

<400> 907

```

atgtacaacc tgttgctgtc ctacgacaga catggggacc acctgcagcc cctggacctc 60
gtgcccaatc accaggtct caccctttc aagctggctg gactggaggg taacactgtg 120
atgtttcagc acctgatgca gaagcgaag cacaccaggt ggacgtatgg accactgacc 180
tcgactctct atgacctcac agagatcgac tcctcagggg atgagcagtc cctgctggaa 240
cttatcatca ccaccaagaa gcgggaggtc cgccagatcc tggaccagac gccggtgaag 300
gagctgggtga gctcaagtg gaagcggtag gggcgccgt acttctgcat gctgggtgcc 360
atatatctgc tgtacatcat ctgcttcacc atgtgctgca tctaccgcc cctcaagccc 420
aggaccaata accgcacgag ccccgggac aacaccctct tacagcagaa gctacttcag 480
gaagcctaca tgaccctaa ggacgatata cggctgggtc gggagctggt gactgtcatt 540
gggctatca tcatcctgct ggtagaggtt ccagacatct tcagaatggg ggtcactcgc 600
ttctttggac agaccatcct tgggggcccc ttccatgtcc tcatcatcac ctatgccttc 660
atggtgctgg tgaccatggt gatgcggctc atcagtgcc gcggggaggt ggtacccatg 720
tcctttgcac tcgtgctggg ctggtgcaac gtcattgact tcgcccagg attccagatg 780
ctaggccctc tcaccatcat gattcagaag atgatttttg gcgacctgat gcgattctgc 840
tggctgatgg ctgtggtcat cctgggcttt gcttcagcct tctatatcat cttccagaca 900
gaggaccccg aggagctagg ccacttctac gactacccca tggccctgtt cagcaccttc 960
gagctgttcc ttaccatcat cgatggccca gccaaactaca acgtggacct gcccttcatt 1020
tacagcatca cctatgctgc ctttgccatc atcgccacac tgctcatgct caacctcttc 1080
attgccatga tgggcgacac tcactggcga gtggcccatg agcgggatga gctgtggagg 1140

```

```

gccagattg tggccaccac ggtgatgctg gagcggaagc tgcctcgctg cctgtggcct 1200
cgctccggga tctgcgagac ggagtatggc ctgggagacc gctgggttcct gcgggtggaa 1260
gacaggcaag atctcaaccg gcagcggatc caacgctacg cacaggcctt ccacaccggg 1320
ggctctgagg atttgacaaa agactcagtg gaaaaactag agctgggctg tcccttcagc 1380
ccccacctgt ccttctctat gccctcagtg tctogaagta cctcccgag cagtgccaat 1440
tggaagagc ttcggcaagg gaccctgagg agagacctgc gtgggataat caacaggggt 1500
ctggaggacg gggagagctg ggaatatcag atctga 1536

```

```

<210> 908
<211> 1533
<212> DNA
<213> Homo sapiens

```

```

<400> 908
atgtacaacc tgttgctgtc ctacgacaga catgggggacc acctgcagcc cctggacctc 60
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<210> 909
<211> 511
<212> PRT
<213> Homo sapiens

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<400> 909
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Pro Leu Asp Leu Val Pro Asn His Gln Gly Leu Thr Pro Phe Lys Leu
      20                                25                                30

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Ala Gly Val Glu Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys

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35	40	45
Arg Lys His Thr Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr		
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Asp Leu Thr Glu Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu		
65	70	75
Leu Ile Ile Thr Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln		
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Thr Pro Val Lys Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg		
	100	105
Pro Tyr Phe Cys Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys		
	115	120
Phe Thr Met Cys Cys Ile Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn		
	130	135
Arg Thr Ser Pro Arg Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln		
	145	150
Glu Ala Tyr Met Thr Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu		
	165	170
Val Thr Val Ile Gly Ala Ile Ile Ile Leu Leu Val Glu Val Pro Asp		
	180	185
Ile Phe Arg Met Gly Val Thr Arg Phe Phe Gly Gln Thr Ile Leu Gly		
	195	200
Gly Pro Phe His Val Leu Ile Ile Thr Tyr Ala Phe Met Val Leu Val		
	210	215
Thr Met Val Met Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met		
	225	230
Ser Phe Ala Leu Val Leu Gly Trp Cys Asn Val Met Tyr Phe Ala Arg		
	245	250
Gly Phe Gln Met Leu Gly Pro Phe Thr Ile Met Ile Gln Lys Met Ile		
	260	265
Phe Gly Asp Leu Met Arg Phe Cys Trp Leu Met Ala Val Val Ile Leu		
	275	280
Gly Phe Ala Ser Ala Phe Tyr Ile Ile Phe Gln Thr Glu Asp Pro Glu		
	290	295
Glu Leu Gly His Phe Tyr Asp Tyr Pro Met Ala Leu Phe Ser Thr Phe		
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Glu Leu Phe Leu Thr Ile Ile Asp Gly Pro Ala Asn Tyr Asn Val Asp		


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<210> 910
<211> 134
<212> PRT
<213> Homo sapiens
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Met Tyr Asn Leu Leu Leu Ser Tyr Asp Arg His Gly Asp His Leu Gln
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Pro Leu Asp Leu Val Pro Asn His Gln Gly Leu Thr Pro Phe Lys Leu
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Ala Gly Val Glu Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys
35 40 45

Arg Lys His Thr Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr
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<212> PRT

<213> Homo sapiens

<400> 913

Met Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met Ser Phe Ala
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Leu Val Leu

<210> 914

<211> 52

<212> PRT

<213> Homo sapiens

<400> 914

Gly Trp Cys Asn Val Met Tyr Phe Ala Arg Gly Phe Gln Met Leu Gly
5 10 15

Pro Phe Thr Ile Met Ile Gln Lys Met Ile Phe Gly Asp Leu Met Arg
20 25 30

Phe Cys Trp Leu Met Ala Val Val Ile Leu Gly Phe Ala Ser Ala Phe
35 40 45

Tyr Ile Ile Phe
50

<210> 915

<211> 213

<212> PRT

<213> Homo sapiens

<400> 915

Gln Thr Glu Asp Pro Glu Glu Leu Gly His Phe Tyr Asp Tyr Pro Met
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Ala Leu Phe Ser Thr Phe Glu Leu Phe Leu Thr Ile Ile Asp Gly Pro
20 25 30

Ala Asn Tyr Asn Val Asp Leu Pro Phe Met Tyr Ser Ile Thr Tyr Ala
35 40 45

Ala Phe Ala Ile Ile Ala Thr Leu Leu Met Leu Asn Leu Leu Ile Ala
50 55 60

Met Met Gly Asp Thr His Trp Arg Val Ala His Glu Arg Asp Glu Leu
65 70 75 80

Trp Arg Ala Gln Ile Val Ala Thr Thr Val Met Leu Glu Arg Lys Leu
85 90 95

Pro Arg Cys Leu Trp Pro Arg Ser Gly Ile Cys Gly Arg Glu Tyr Gly

100	105	110
Leu Gly Asp Arg Trp Phe Leu Arg Val Glu Asp Arg Gln Asp Leu Asn		
115	120	125
Arg Gln Arg Ile Gln Arg Tyr Ala Gln Ala Phe His Thr Arg Gly Ser		
130	135	140
Glu Asp Leu Asp Lys Asp Ser Val Glu Lys Leu Glu Leu Gly Cys Pro		
145	150	155
Phe Ser Pro His Leu Ser Leu Pro Met Pro Ser Val Ser Arg Ser Thr		
165	170	175
Ser Arg Ser Ser Ala Asn Trp Glu Arg Leu Arg Gln Gly Thr Leu Arg		
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Arg Asp Leu Arg Gly Ile Ile Asn Arg Gly Leu Glu Asp Gly Glu Ser		
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Trp Glu Tyr Gln Ile		
210		

<210> 916
 <211> 1302
 <212> DNA
 <213> Homo sapiens

<400> 916

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<210> 917
 <211> 2061
 <212> DNA
 <213> Homo sapiens

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<210> 918
 <211> 957
 <212> DNA
 <213> Homo sapiens

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<210> 919

<211> 954

<212> DNA

<213> Homo sapiens

<400> 919

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<210> 920

<211> 318

<212> PRT

<213> Homo sapiens

<400> 920

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Met Met Val Asp Pro Asn Gly Asn Glu Ser Ser Ala Thr Tyr Phe Ile
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Leu Ile Gly Leu Pro Gly Leu Glu Glu Ala Gln Phe Trp Leu Ala Phe
          20                      25                      30

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Pro Leu Cys Ser Leu Tyr Leu Ile Ala Val Leu Gly Asn Leu Thr Ile
          35                      40                      45

```

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Ile Tyr Ile Val Arg Thr Glu His Ser Leu His Glu Pro Met Tyr Ile
          50                      55                      60

```

Phe Leu Cys Met Leu Ser Gly Ile Asp Ile Leu Ile Ser Thr Ser Ser
 65 70 75 80
 Met Pro Lys Met Leu Ala Ile Phe Trp Phe Asn Ser Thr Thr Ile Gln
 85 90 95
 Phe Asp Ala Cys Leu Leu Gln Met Phe Ala Ile His Ser Leu Ser Gly
 100 105 110
 Met Glu Ser Thr Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala
 115 120 125
 Ile Cys His Pro Leu Arg His Ala Thr Val Leu Thr Leu Pro Arg Val
 130 135 140
 Thr Lys Ile Gly Val Ala Ala Val Val Arg Gly Ala Ala Leu Met Ala
 145 150 155 160
 Pro Leu Pro Val Phe Ile Lys Gln Leu Pro Phe Cys Arg Ser Asn Ile
 165 170 175
 Leu Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys
 180 185 190
 Asp Asp Ile Arg Val Asn Val Val Tyr Gly Leu Ile Val Ile Ile Ser
 195 200 205
 Ala Ile Gly Leu Asp Ser Leu Leu Ile Ser Phe Ser Tyr Leu Leu Ile
 210 215 220
 Leu Lys Thr Val Leu Gly Leu Thr Arg Glu Ala Gln Ala Lys Ala Phe
 225 230 235 240
 Gly Thr Cys Val Ser His Val Cys Ala Val Phe Ile Phe Tyr Val Pro
 245 250 255
 Phe Ile Gly Leu Ser Met Val His Arg Phe Ser Lys Arg Arg Asp Ser
 260 265 270
 Pro Leu Pro Val Ile Leu Ala Asn Ile Tyr Leu Leu Val Pro Pro Val
 275 280 285
 Leu Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Glu Ile Arg Gln Arg
 290 295 300
 Ile Leu Arg Leu Phe His Val Ala Thr His Ala Ser Glu Pro
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<210> 921

<211> 28

<212> PRT

<213> Homo sapiens

Leu Ile Gly Leu Pro Gly Leu Glu Glu Ala Gln Phe
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<213> Homo sapiens

Arg Thr Glu His Ser Leu His Glu Pro
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<213> Homo sapiens

Ala Cys Leu Leu Gln
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<213> Homo sapiens

Thr Leu Pro Arg
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<213> Homo sapiens

Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Asp Asp Ile Arg

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25

30

Val Asn Val Val Tyr
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<210> 926

<211> 13

<212> PRT

<213> Homo sapiens

<400> 926

Lys Thr Val Leu Gly Leu Thr Arg Glu Ala Gln Ala Lys
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<210> 927

<211> 10

<212> PRT

<213> Homo sapiens

<400> 927

Val His Arg Phe Ser Lys Arg Arg Asp Ser
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<210> 928

<211> 22

<212> PRT

<213> Homo sapiens

<400> 928

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Thr His Ala Ser Glu Pro
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<210> 929

<211> 3245

<212> DNA

<213> Homo sapiens

<400> 929

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 gctgaagcaa agtgcccatg gtggcggcga agaagagaaa gatgtgtttt gttttggact 2760
 ctctgtggtc ccttccaatg ctgtgggttt ccaaccaggg gaaggggtccc ttttgcattg 2820
 ccaagtcca taacctagag cactactcta ccattggttct gcctcctggc caagcaggct 2880
 gggttgcaag aatgaaatga atgattctac agctaggact taaccttgaa atggaaagtc 2940
 ttgcaatccc atttgcaagga tccgtctgtg cacatgcctc tgtagagagc agcattccca 3000
 gggaccttg aaacagtttg cactgtaagg tgcttgctcc ccaagacaca tcctaaaagg 3060
 tgttgtaatg gtgaaaacgt cttccttctt tattgccct tcttatttat gtgaacaact 3120
 gtttgcctt ttttgtatct tttttaaact gtaaagttca attgtgaaaa tgaatatcat 3180
 gcaataaat tatgcgattt ttttttcaaa gtaaaaaaaa aaaaaaaa 3240
 gccgc 3245

<210> 930

<211> 1479

<212> DNA

<213> Homo sapiens

<400> 930

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caaccggaaa acccctatcc cgcacagccc actgtggtcc ccactgtcta cgagggtgat 120
ccggctcagt actaccgctc ccccggtgcc cagtacgccc cgagggtcct gacgcaggct 180
tccaaccccc tegtctgcac gcagcccaaa tccccatccg ggacagtgtg cacctcaaaag 240
actaagaaaag cactgtgcat caccttgacc ctggggacct tcctcgtggg agctgcgctg 300
gccgctggcc tactctggaa gttcatgggc agcaagtgtc ccaactctgg gatagagtgc 360
gactcctcag gtacctgcat caacccctct aactggtgtg atggcgtgtc aactgcccc 420
ggcggggagg acgagaatcg gtgtgttcgc ctctacggat caaacttcat ccttcagggtg 480
tactcatctc agaggaagtc ctggcaccct gtgtgccaag acgactggaa cgagaactac 540
gggcggggcgg cctgcaggga catgggctat aagaataatt ttactctag ccaaggaata 600
gtggatgaca gcgatccac cagctttatg aaactgaaca caagtgccgg caatgtcgat 660
atctataaaa aactgtacca cagtgtgccc tgttcttcaa aagcagtggg ttctttacgc 720
tgtatagcct gcggggtcaa cttgaactca agccgccaga gcaggattgt gggcggcgag 780
agcgcgctcc cgggggcctg gccctggcag gtcagcctgc acgtccagaa cgtccacgtg 840
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tctcttaaca atccatggca ttggacggca tttgcgggga ttttgagaca atctttcatg 960
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tggggttctg gctgtgccaa agcttacaga ccaggagtgt acgggaatgt gatggtattc 1440
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```

<210> 931

<211> 1476

<212> DNA

<213> Homo sapiens

<400> 931

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atggctttga actcagggtc accaccagct attggacctt actatgaaaa ccatggatac 60
caaccggaaa acccctatcc cgcacagccc actgtggtcc ccactgtcta cgagggtgat 120
ccggctcagt actaccgctc ccccggtgcc cagtacgccc cgagggtcct gacgcaggct 180
tccaaccccc tegtctgcac gcagcccaaa tccccatccg ggacagtgtg cacctcaaaag 240
actaagaaaag cactgtgcat caccttgacc ctggggacct tcctcgtggg agctgcgctg 300
gccgctggcc tactctggaa gttcatgggc agcaagtgtc ccaactctgg gatagagtgc 360
gactcctcag gtacctgcat caacccctct aactggtgtg atggcgtgtc aactgcccc 420
ggcggggagg acgagaatcg gtgtgttcgc ctctacggat caaacttcat ccttcagggtg 480
tactcatctc agaggaagtc ctggcaccct gtgtgccaag acgactggaa cgagaactac 540
gggcggggcgg cctgcaggga catgggctat aagaataatt ttactctag ccaaggaata 600
gtggatgaca gcgatccac cagctttatg aaactgaaca caagtgccgg caatgtcgat 660
atctataaaa aactgtacca cagtgtgccc tgttcttcaa aagcagtggg ttctttacgc 720
tgtatagcct gcggggtcaa cttgaactca agccgccaga gcaggattgt gggcggcgag 780
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tctcttaaca atccatggca ttggacggca tttgcgggga ttttgagaca atctttcatg 960
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gtgaaaccag tgtgtctgcc caaccaggc atgatgctgc agccagaaca gctctgctgg 1140
atttcgggtt ggggggccac cgaggagaaa gggaagacct cagaagtgtc gaacgctgcc 1200
aaggtgcttc tcattgagac acagagatgc aacagcagat atgtctatga caacctgatc 1260

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acaccagcca tgatctgtgc cggcttcttg caggggaacg tcgattcttg ccagggtgac 1320
agtggagggc ctctggtcac ttccaagaac aatatctggg ggctgatagg ggatacaagc 1380
tggggttctg gctgtgcca agcttacaga ccaggagtgt acgggaatgt gatggtattc 1440
acggactgga tttatcgaca aatgagggca gacggc 1476

```

<210> 932

<211> 492

<212> PRT

<213> Homo sapiens

<400> 932

```

Met Ala Leu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu
      5              10              15
Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
      20              25              30
Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
      35              40              45
Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
      50              55              60
Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
      65              70              75              80
Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
      85              90              95
Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys
      100             105             110
Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn
      115             120             125
Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp
      130             135             140
Glu Asn Arg Cys Val Arg Leu Tyr Gly Ser Asn Phe Ile Leu Gln Val
      145             150             155             160
Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp
      165             170             175
Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn
      180             185             190
Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser
      195             200             205
Phe Met Lys Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys
      210             215             220
Leu Tyr His Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg
      225             230             235             240
Cys Ile Ala Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile
      245             250             255
Val Gly Gly Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser
      260             265             270
Leu His Val Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro
      275             280             285
Glu Trp Ile Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn Asn
      290             295             300
Pro Trp His Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met
      305             310             315             320
Phe Tyr Gly Ala Gly Tyr Gln Val Glu Lys Val Ile Ser His Pro Asn
      325             330             335

```

```

Tyr Asp Ser Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln
      340                      345                      350
Lys Pro Leu Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn
      355                      360                      365
Pro Gly Met Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp
      370                      375                      380
Gly Ala Thr Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala
385                      390                      395                      400
Lys Val Leu Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr
      405                      410                      415
Asp Asn Leu Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly
      420                      425                      430
Asn Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser
      435                      440                      445
Lys Asn Asn Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly
      450                      455                      460
Cys Ala Lys Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe
465                      470                      475                      480
Thr Asp Trp Ile Tyr Arg Gln Met Arg Ala Asp Gly
      485                      490

```

<210> 933

<211> 100

<212> PRT

<213> Homo sapiens

<400> 933

```

Met Ala Leu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu
      5                      10                      15
Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
      20                      25                      30
Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
      35                      40                      45
Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
      50                      55                      60
Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
      65                      70                      75                      80
Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
      85                      90                      95
Gly Ala Ala Leu
      100

```

<210> 934

<211> 393

<212> PRT

<213> Homo sapiens

<400> 934

```

Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys Cys Ser Asn
      5                      10                      15
Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn Pro Ser Asn
      20                      25                      30

```

Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp Glu Asn Arg
 35 40 45
 Cys Val Arg Leu Tyr Gly Ser Asn Phe Ile Leu Gln Val Tyr Ser Ser
 50 55 60
 Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp Asn Glu Asn
 65 70 75 80
 Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn Asn Phe Tyr
 85 90 95
 Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser Phe Met Lys
 100 105 110
 Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys Leu Tyr His
 115 120 125
 Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg Cys Ile Ala
 130 135 140
 Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile Val Gly Gly
 145 150 155 160
 Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser Leu His Val
 165 170 175
 Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro Glu Trp Ile
 180 185 190
 Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn Asn Pro Trp His
 195 200 205
 Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met Phe Tyr Gly
 210 215 220
 Ala Gly Tyr Gln Val Glu Lys Val Ile Ser His Pro Asn Tyr Asp Ser
 225 230 235 240
 Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln Lys Pro Leu
 245 250 255
 Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn Pro Gly Met
 260 265 270
 Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp Gly Ala Thr
 275 280 285
 Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala Lys Val Leu
 290 295 300
 Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr Asp Asn Leu
 305 310 315 320
 Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly Asn Val Asp
 325 330 335
 Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser Lys Asn Asn
 340 345 350
 Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly Cys Ala Lys
 355 360 365
 Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe Thr Asp Trp
 370 375 380
 Ile Tyr Arg Gln Met Arg Ala Asp Gly
 385 390

<210> 935

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 935
gtgctgtggg agtccccgcg gc

22

<210> 936
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 936
cgtgaactcg agtcattaga ttaacctcgt ggacgc

36

<210> 937
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 937
gtgctgtggg agtccccgcg gc

22

<210> 938
<211> 1158
<212> DNA
<213> Homo sapiens

<400> 938
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tggaacttt gcgagggtt ttgctggctg ctgctgctgc ccgtcatgct actcatcgta 120
gcccgcgcgg tgaagctcgc tgctttccct acctccttaa gtgactgcca aacgcccacc 180
ggctggaatt gctctgggta tgatgacaga gaaaatgatc tcttccctctg tgacaccaac 240
acctgtaaat ttgatgggga atgtttaaga attggagaca ctgtgacttg cgtctgtcag 300
ttcaagtgc acaatgacta tgtgcctgtg tgtggctcca atggggagag ctaccagaat 360
gagtgttacc tgcgacaggc tgcattgcaa cagcagagtg agatacttgt ggtgtcagaa 420
ggatcatgtg ccacagatgc aggatcagga tctggagatg gattccatga aggtctctga 480
gaaactagtc aaaaggagac atccacctgt gatatttgcc agtttggtgc agaattgtgac 540
gaagatgccg aggatgtctg gtgtgtgtgt aatattgact gttctcaaac caacttcaat 600
cccctctgcg cttctgatgg gaaatcttat gataatgcat gccaaatcaa agaagcatcg 660
tgtcagaaac aggagaaaaat tgaagtcattg tctttgggtc gatgtcaaga taacacaact 720
acaactacta agtctgaaga tgggcattat gcaagaacag attatgcaga gaatgctaac 780
aaattagaag aaagtgccag agaaccaccac atacctgtgc cggaacatta caatggcttc 840
tgcatgcatg ggaagtgtga gcattctatc aatatgcagg agccatcttg cagggtgtgat 900
gctgggtata ctggacaaca ctgtgaaaaa aaggactaca gtgttctata cgttggtccc 960
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gtcatctgtg tgggtggtcct ctgcatcaca aggaaatgcc ccagaagcaa cagaattcac 1080
agacagaagc aaaatacagg gcactacagt tcagacaata caacaagagc gtccacgagg 1140

ttaatctaata gactcgag

1158

<210> 939

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 939

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atgcagcatc accaccatca ccacgactgc caaacgccca cgggctggaa ttgctctggt 60
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gaatgtttaa gaattggaga cactgtgact tgcgtctgtc agttcaagtg caacaatgac 180
tatgtgcctg tgtgtggctc caatggggag agctaccaga atgagtgtta cctgcgacag 240
gctgcatgca aacagcagag tgagatactt gtgggtgtcag aaggatcatg tgccacagat 300
gcaggatcag gatctggaga tggagtccat gaaggctctg gagaaactag tcaaaaggag 360
acatccacct gtgatatttg ccagtttggg gcagaatgtg acgaagatgc cgaggatgtc 420
tgggtgtgtg gtaatatgta ctgttctcaa accaacttca atcccctctg cgcttctgat 480
gggaaatctt atgataatgc atgccaaatc aaagaagcat cgtgtcagaa acaggagaaa 540
attgaagtca tgtctttggg tcgatgtcaa gataacacaa ctacaactac taagtctgaa 600
gatgggcatt atgcaagaac agattatgca gagaatgcta acaaattaga agaaagtgcc 660
agagaacacc acataccttg tccggaacat tacaatggct tctgcatgca tgggaagtgt 720
gagcattcta tcaatatgca ggagccatct tgcagggtgtg atgctgggta tactggacaa 780
cactgtgaaa aaaaggacta cagtgttcta tacgttggtc cgggtcctgt acgatttcag 840
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ctctgcatca caaggaaatg cccagaagc aacagaattc acagacagaa gcaaaataca 960
gggcactaca gttcagacaa tacaacaaga gcgtccaaga ggtaatatca atgactcgag 1020

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<210> 940

<211> 336

<212> PRT

<213> Homo sapiens

<400> 940

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Met Gln His His His His His His Asp Cys Gln Thr Pro Thr Gly Trp
                    5              10              15
Asn Cys Ser Gly Tyr Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp
                20              25              30
Thr Asn Thr Cys Lys Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr
                35              40              45
Val Thr Cys Val Cys Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val
                50              55              60
Cys Gly Ser Asn Gly Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln
                65              70              75              80
Ala Ala Cys Lys Gln Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser
                85              90              95
Cys Ala Thr Asp Ala Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly
                100             105             110
Ser Gly Glu Thr Ser Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln
                115             120             125
Phe Gly Ala Glu Cys Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys
                130             135             140
Asn Ile Asp Cys Ser Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp
                145             150             155             160
Gly Lys Ser Tyr Asp Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln
                165             170             175

```



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<210> 941
<211> 381
<212> PRT
<213> Homo sapiens
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Cys Ser S

Pro	Val	Met	Leu	Leu	Ile	Val	Ala	Arg	Pro	Val	Lys	Leu	Ala	Ala	Phe
		35					40					45			
Pro	Thr	Ser	Leu	Ser	Asp	Cys	Gln	Thr	Pro	Thr	Gly	Trp	Asn	Cys	Ser
	50					55					60				
Gly	Tyr	Asp	Asp	Arg	Glu	Asn	Asp	Leu	Phe	Leu	Cys	Asp	Thr	Asn	Thr
65				70						75					80
Cys	Lys	Phe	Asp	Gly	Glu	Cys	Leu	Arg	Ile	Gly	Asp	Thr	Val	Thr	Cys
				85					90					95	
Val	Cys	Gln	Phe	Lys	Cys	Asn	Asn	Asp	Tyr	Val	Pro	Val	Cys	Gly	Ser
			100					105					110		
Asn	Gly	Glu	Ser	Tyr	Gln	Asn	Glu	Cys	Tyr	Leu	Arg	Gln	Ala	Ala	Cys
			115				120					125			
Lys	Gln	Gln	Ser	Glu	Ile	Leu	Val	Val	Ser	Glu	Gly	Ser	Cys	Ala	Thr
	130					135					140				
Asp	Ala	Gly	Ser	Gly	Ser	Gly	Asp	Gly	Val	His	Glu	Gly	Ser	Gly	Glu
145				150						155					160
Thr	Ser	Gln	Lys	Glu	Thr	Ser	Thr	Cys	Asp	Ile	Cys	Gln	Phe	Gly	Ala
			165						170					175	
Glu	Cys	Asp	Glu	Asp	Ala	Glu	Asp	Val	Trp	Cys	Val	Cys	Asn	Ile	Asp
			180					185					190		
Cys	Ser	Gln	Thr	Asn	Phe	Asn	Pro	Leu	Cys	Ala	Ser	Asp	Gly	Lys	Ser
		195					200					205			

Tyr Asp Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln Lys Gln Glu
 210 215 220
 Lys Ile Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn Thr Thr Thr
 225 230 235 240
 Thr Thr Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp Tyr Ala Glu
 245 250 255
 Asn Ala Asn Lys Leu Glu Glu Ser Ala Arg Glu His His Ile Pro Cys
 260 265 270
 Pro Glu His Tyr Asn Gly Phe Cys Met His Gly Lys Cys Glu His Ser
 275 280 285
 Ile Asn Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly Tyr Thr Gly
 290 295 300
 Gln His Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val Val Pro Gly
 305 310 315 320
 Pro Val Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile Gly Thr Ile
 325 330 335
 Gln Ile Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys
 340 345 350
 Pro Arg Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr
 355 360 365
 Ser Ser Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
 370 375 380

<210> 942
 <211> 45
 <212> DNA
 <213> Homo sapiens

<400> 942
 ctgctggcga acggcagaat gcctaccgtg ctgcagtgcg tgaac

45

<210> 943
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 943
 Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys Val Asn
 5 10 15